

SERVICE MANUAL

US Model Canadian Model



Remote commander is available as a unit, See page 195 for repair parts.

video Hi8

U' MECHANISM

For MECHANICAL ADJUSTMENT, refer to the "8mm Video MECHANICAL ADJUSTMENT MANUAL III (U MECHANISM)" (9-972-732-11).

SPECIFICATIONS

System

Video recording system

Rotary two-head helical scanning FM system

Audio recording

Standard: Rotary head, FM system (2 channels)

PCM: PCM system (2 channels)

NTSC color, EIA standards Video signal

8mm video format cassettes Usable cassette

Tape speed SP: approx. 1.43cm/sec.

LP: approx. 0.72cm/sec.

Maximum recording time

SP: 2 hours 30 minutes

LP: 5 hours

(with Sony P6-150)

SP: 2 hours

LP: 4 hours

(with Sony E6-120)

Fast-forward and rewind time

Approx. 4 minutes (with Sony P6-120 cassette)

Tuner section

Channel coverage

VHF channels 2 to 13

UHF channels 14 to 69

Cable TV channels 1 to 125

VHF/UHF output signal

Channel 3 or 4 (selectable)

75 ohms, unbalanced

VHF/UHF input signal

75 ohms, F-type connector for VHF/UHF IN and

VHF/UHF OUT

PCM

Sampling frequency

31.5KHz

Audio frequency

20Hz to 15 KHz

Dynamic range

90dB (in playback)

Wow and flutter

Less than 0.005 % RMS

Inputs and outputs

Video input LINE 1/2 VIDEO (phono jack)

(1 each)

Input signal: 1 Vp-p, 75 ohms, unbalanced,

sync negative

Video output LINE OUT/MONITOR OUT VIDEO

(phono jack)

(1 each)

Output signal: 1 Vp-p, 75 ohms, unbalanced,

sync negative

-continued on next page-



HI B VIDEO CASSETTE RECORDER SONY S VIDEO input LINE IN 1/2 S VIDEO

(4-pin, mini-DIN)

(1 each)

Luminance signal: 1 Vp-p, 75 ohms,

unbalanced, sync negative

Chrominance signal: 0.286 Vp-p, 75 ohms,

unbalanced

S VIDEO output LINE OUT/MONITOR OUT S VIDEO

(4-pin, mini-DIN)

Luminance signal: 1 Vp-p, 75 ohms,

unbalanced, sync negative

Chrominance signal: 0.286 Vp-p, 75 ohms,

unbalanced

Audio input LINE 1/2 AUDIO (phono jack)

(2 each)

Input level: -7.5 dBs

Input impedance: more than 47 kilohms

Audio output LINE OUT/MONITOR OUT AUDIO

(phono jack)

(2 each)

Standard impedance: -7.5 dBs at load impedance

47 kilohms

Output impedance: less than 10 kilohms

CONTROL S IN Minijack

CONTROL L 5-pin DIN (rear panel)

(Minijack) (front panel)

Timer

Clock Quartz lock

Timer indication 12-hour digital indication

Timer setting Only for recording

6 events/1 month max.

General

Power requirements 120 V AC, 60 Hz

Power consumption 30W(max.)

Operating temperature 5°C to 40°C (41°F to 104°F)

Storage temperature -20°C to 60°C (-4°F to +140°F)

Dimensions Approx. 470 x 101 x 330 mm (w/h/d)

Approx. 18 x 4 x 13 inch

Weight Approx. 6.1 Kg (13 lb 8 oz)

Remote Commander RMT-V120

Remote control system Infrared control

Commande mode Selectable VTR 1, 2 or3

Power requirements 3V DC

2 size AA batteries

(IEC designation R6)

Design and specifications subject to change without notice.

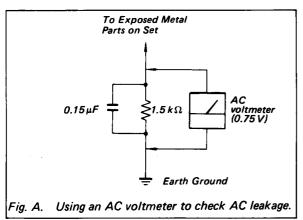
Supplied accessories

- Remote Commander RMT-V120 (1)
- Size AA (R6) batteries (2)
- External antenna connector (1)
- 75-ohm coaxial cable with F-type connectors (1)
- Audio/video connecting cable (3 phono to 3 phono) (1)
- S VIDEO connecting cable (1)
- LANC & cable (1)

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- 3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
- Check the line cord for cracks and abrasion.
 Recommend the replacement of any such line cord to the customer.
- 6. Check the B+ voltage to see it is at the values specified.
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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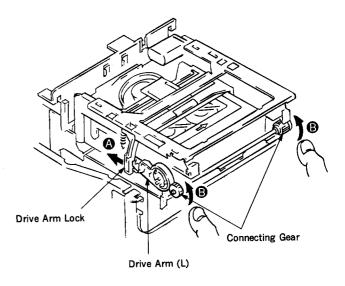
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SECTION 1 SERVICE NOTE

1-1. REMOVAL OF CASSETTE AT FAILURE WITH CASSETTE INSERTED

- (A) If tape is wounded on the drum and it cannot be removed: Rotate the capstan motor wheel in either direction and rotate the S or R reel to house the tape. Then, perform Procedure ®.
- ® If tape is housed in the cassette half and cannot be removed:
 - ① Remove the MD block. (For removal, refer to Section
 - ② Release the drive arm lock from the drive arm (L) located between the L frame and the left side of the cassette controller in the arrow direction (A).
 - (3) Rotate the connecting gear in the arrow direction (B) with both the thumbs.



1-2. REPLACEMENT OF EXTERNAL PARTS

2 Side Plate (L) Assembly 3 Case Fixing Screw

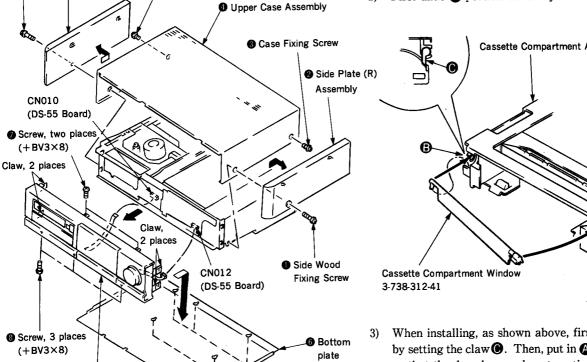
Side Wood Fixing Screw

Front Panel Assembly

1-3. REPLACEMENT OF CASSETTE DOOR ASSEMBLY

Remove the front panel. 1)

First undo **A** portion toward you and then undo **B**.



Screw, 5 places (+BV3×8)

Cassette Compartment Assembly

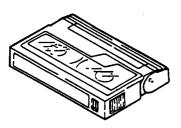
When installing, as shown above, first put in **3** portion by setting the claw **(C)**. Then, put in **(A)** portion and install so that the door hangs almost vertically.

1-4. CLEANING OF VIDEO HEAD AND RUN SYSTEM

Method 1

(Cleaning Method with Cleaning Tape)

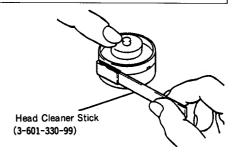
 A cleaning cassette should be used. (When using, the attached manual for the cleaning cassette should be thoroughly read.)



Method 2

(Cleaning Method with Cleaning Liquid)

- ①Remove the upper case of the video deck.
- ②Apply cleaning liquid to a head cleaner stick.
- ③As shown in the right figure, press the head cleaner stick lightly. Turn the rubber of the rotary upper drum gradually and clean the video deck.



(Cleaning Method for Run System)

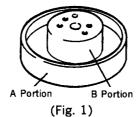
- ①Apply cleaning liquid to a head cleaner stick.
- ②Clean the guides which tape touches directly and the pinch roller with the head cleaner.

1-5. REPLACEMENT OF UPPER ROTARY DRUM

Method 3

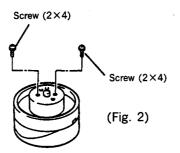
Caution

- Particular care must be taken when handling the video head and the terminals
- When handling the rotary upper drum, do not touch the side (A portion) and hold the top (B portion) (See Fig. 1)

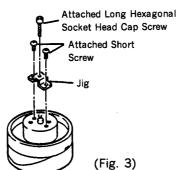


Removal of Rotary Upper Drum

①Remove two screws (2×4) (See Fig. 2).



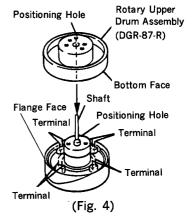
②Fix the jig (supplied with the spare rotary upper drum) with the two attached short screws. Then, put the attached long screw into the jig until the rotary upper drum may be removed (See Fig. 3).



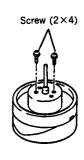
Installation of New Rotary Upper drum

①Clean the flange face and the bottom face of the new rotary upper drum (See Fig. 4).

②Insert the shaft attached to the jig into the positioning hole in the lower drum. Then, put the shaft through the positioning hole in the new rotary upper drum and set the drum lightly.



- With the shaft inserted into the positioning hole, push into the upper drum lightly with a hand. If the drum is not allowed to be bottomed, alternately tighten two screws (2×4) gradually and install the drum (See Fig. 5)
- Pull out the shaft inserted. If the shaft is not allowed to be withdrawn smoothly, go back to Step ② and redo the procedure.



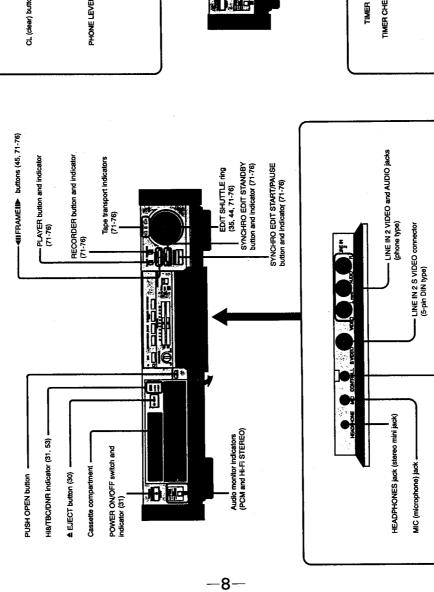
(Fig. 5)

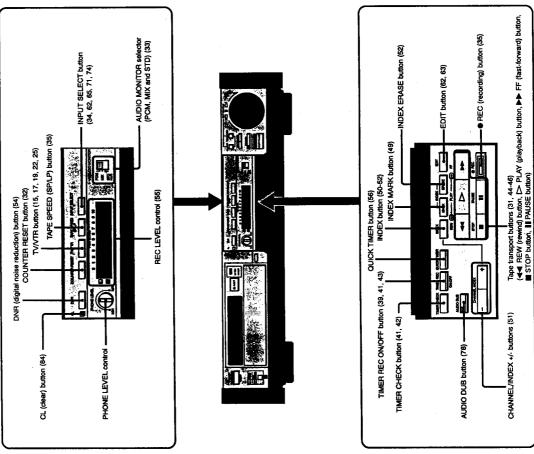
⑤Once the drum has been replaced, clean the video head and the run system with a head cleaner stick (See "Cleaning Method 2 for Video Head and Run System).

Identifying the Parts and Controls

Front Panel

The function of each control is explained on the page indicated in parentheses ().

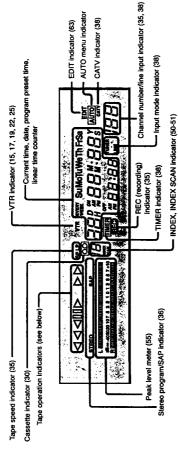




Control L jack (stereo mini-mini jack)

Display Window

Each indication is explained on the page indicated in parentheses ().

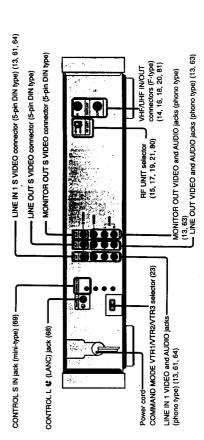


	Recording	Į	Slow playback, frame playback (reverse)	A	Picture search, locked picture search (forward)
	RECIE Recording pause	À	Play pause (forward)	Y	Picture search, locked picture search (reverse)
, .	Playback, double speed playback (forward)	Ţ	Play pause (reverse)	X	Auto play (BEW.Pl AV)
V	Playback, double speed playback (reverse)	A	Fast forward		ממס ליום באיין לשל סומט
Δ	Slow playback, frame playback (forward)	¥	Rewind		

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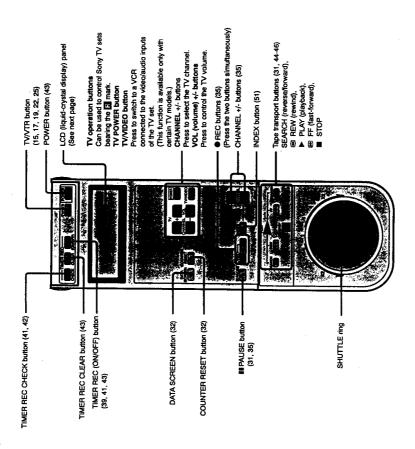
Rear Panel

The function of each control is explained on the page indicated in parentheses ().



Remote Commander (Cover Closed)

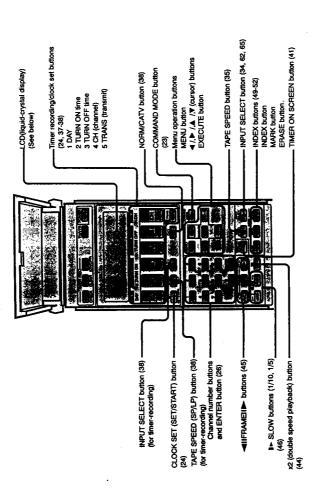
The function of each control is explained on the page indicated in parentheses ().



Identifying the Parts and Controls

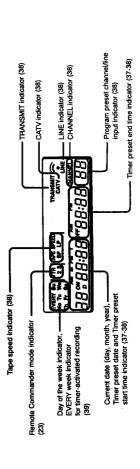
Remote Commander (Cover Opened)

The function of each control is explained on the page indicated in parentheses ().



LCD (Liquid-crystal display)

Each indication is explained on the page indicated in parentheses ().



Hookups and Getting Started

Before you can use your VCR for the first time, you need to connect it to your TV and set it up to receive programs for viewing and recording. This section explains how to hook up, set up, and operate your VCR so that you can start enjoying it right away. There are, however, many types of TVs available and many different ways in which your TV can be hooked up. As a result, this manual describes several ways your VCR can be connected.

To hook up your VCR so that it works best for you, first scan through this section to find the diagram that best illustrates the way your TV is presently connected (antenna or cable/cable box). And then use the accompanying diagrams and procedures to complete your VCR's connections.

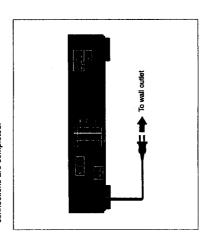
When the second	800
Your TV has audio/video (A/V) inputs	Hookup 1 Audio/Video Hookup (page 13)
Your TV doesn't have audio/video (A/V) inputs	Hookup 2 Antenna Hookup (page 14)
You have cable, and record only unscrambled channels	Hookup 3 Simple Cable Hookup (page 16)
You have cable, and record scrambled and unscrambled channels	Hookup 4 Alternate Cable Hookup (page 18)
You have cable, and use A/B switch	Hookup 5 Advanced Cable Hookup (page 20)

After you've completed the connections, follow the instructions for setup. (During setup, if you need more details of the procedures described, page numbers are provided where you can find complete, step-by-step instructions.) After you've completed the setup, you're ready to use your VCR. Follow the instructions provided in "To watch TV." "To Watch the VCR." "To Record a program using the time," for your specific brookup. (Again, if you need step-by-step instructions, page numbers are provided where you can find these instructions.)

Before making the connections, check the following

Turn off the power to the VCR and TV.

Do not connect the AC power cord until all of the connections are completed.



- Make connections firmly. Loose connections may cause picture distortion.
- If your TV doesn't match any of the examples provided, consult your nearest Sony dealer or qualified

regarding the use and operation of RF devices. Never connect the output of the recorder to an antenna or make regulations of the Federal Communications Commission should be made only as shown in the instructions. Failure to do so may result in operation that violates the connector and the antenna terminals of a TV receiver connections at the antenna terminals of your receiver Connections between the VCR VHF/UHF OUT simultaneous (parallel) antenna and recorder

NOTE TO CATV SYSTEM INSTALLER IN THE U.S.A. particular, specifies that the cable ground shall be connected to the grounding system of the building, as This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in close to the point of cable entry as practical. Caution
Do not place the VCR near a TV. The playback picture may become distorted.



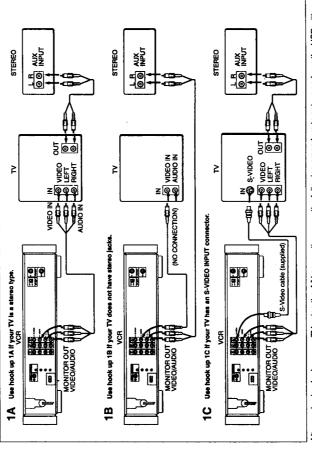
Hookup 1

Audio/Video (A/V) Hookup

experience, you should connect the audio outputs of your VCR or TV to your stereo system. If your TV doesn't have AV inputs, see the following pages for antenna or If your TV has audio/video (A/V) input jacks, you will get a better picture and sound if you hook up your VCR using these connections. In addition, for a true "home theater"

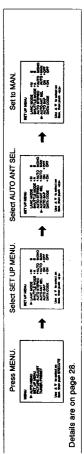
If you only wish to play back movies, you're finished after you've made these connections. If you want to record programs off the air or off your cable TV system, please make the A/V hookup on this page first, then proceed to the following pages for antenna or cable hookup

When you use the LINE OUT lacks instead of the MONITOR OUT jacks, you can't perform setup operation.



After you've hooked up your TV using the AV connections, use the following procedure to set up and use the VCR with your TV.

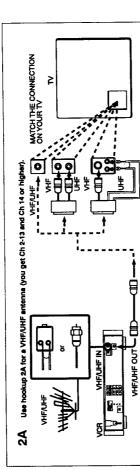
A/V Setup and Operation Set the AUTO ANT SEL setting to MAN.



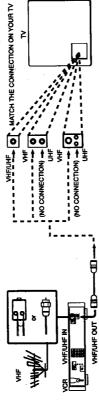
|2| Hookups and Getting Started

Antenna Hookup

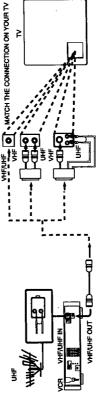
Make the following connections if you're using an antenna (not a cable TV).



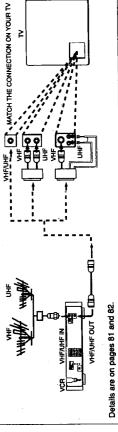
2B Use hookup 2B for VHF only (you get Ch 2-13 only).



2C Use hookup 2C for UHF only (you get Ch 14 or higher).

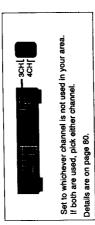


2D Use hookup 2D If you're using separate VHF and UHF antennas.

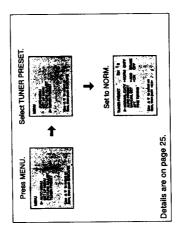


VCR Setup (Antenna)

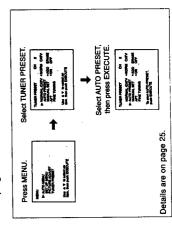
Set the RF UNIT on the VCR's rear panel to 3CH or 4CH.
If you made AV connections, skip this adjustment.



2 Set NORMAL/CATV to NORM.



3 Preprogram the channels into the VCR.



Clock Setting

1 Open the cover of the Remote Commander.



2 Press CLOCK SET.

- 3 Press DAY to set the date, month and year.
- 4 Press H (hour) and M (minute) under the TURN OFF section to set the hour and minute.



5 Transmit the setting to the VCR with TRANS, and close the cover.
Details are on page 24.

To Watch TV

- 1 Turn your VCR off, or press the VCR's TV/VTR button until the VTR indicator in the display window goes off.
 - 2 Tune TV normally.

- To Watch the VCR
 1 Tune the TV to Ch. 3 or 4, whichever you set on the back of the VCR (If you made the AV connections on page 13, set your TV to the AV input instead.
 - 2 Insert a cassette and press ▷ PLAY
- It itself a cassering and proced in the CR's TV/ of it there's no picture on your TV, press the VCR's TV/ VTR button until the VTR indicator appears in the VCR's display.

Details are on page 31.

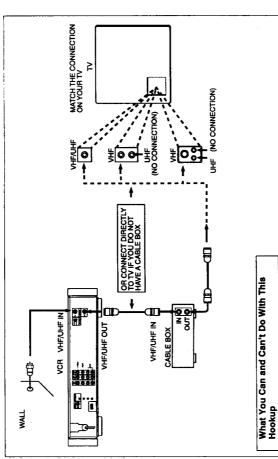
To Record a Program Using the Timer

- 1 Insert a cassette.
- Open the cover of the Remote Commander
- 3 Press DAY, TURN ON, TURN OFF and CH to set date, start time, end time and channel number.
- 4 Transmit your programmed timer data with THANS. Details are on pages 37 and 38.

Simple Cable Hookup

Recommended Use:
Since this is the simplest hookup, we recommend that you try this hookup first.
If you cannot record the channels you want, you'll need to change your hookup to one of the choices on the following pages, or contact your cable company for

channel. Some cable systems "scramble" specific channels, usually premium or pay-per-view channels. You will not be able to record scrambled channels with this hookup. Background This VCR can record virtually any unscrambled cable



VCR Setup (Simple Cable)

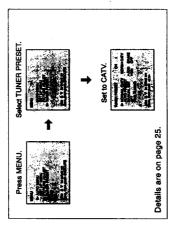
3

Set the RF UNIT on the VCR's rear panel to 3 CH or If you made A/V connections, skip this adjustment.

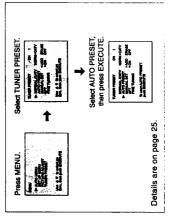


Set to whichever channel is not used in your area. If both are used, pick either channel. Details are on page 80.

2 Set NORMAL/CATV to CATV.



3 Preprogram the channels into the VCR.



Clock Setting

1 Open the cover of the Remote Commander.



2 Press CLOCK SET.

3 Press DAY to set the date, month and year.

4 Press H (hour) and M (minute) under the TURN OFF section to set the hour and minute.



5 Transmit the setting to the VCR with TRANS, and Details are on page 24. close the cover.

To Watch TV

1 Turn your VCR off, or press VCR's TV/VTR button until the VTR indicator in the display window goes off.

2 Select the channel with your cable box (if you have one), or directly tune with your TV (If you don't).

To Watch the VCR

1a If you didn't use the A/V input:

- Turn on the cable box.
 Select Ch 3 or 4 on the cable box (whichever you set on the back of the VCR)
 - Select the output channel of the cable box (usually 2, 3 or 4) on your TV.
- 1b If you made the A/V connections on page 13: Set your TV to the A/V input.

What You Can't Do

Record scrambled channels that require a cable box.

What You Can Do

Record any unscrambled channel directly, without using a cable box.

2 Insert a cassette and press ▷ PLAY.

Details are on pages 31.

To Record a Program Using the Timer

- 1 Insert a cassette.
- 2 Open the cover of the Remote Commander.
- 3 Press DAY, TURN ON, TURN OFF and CH to set date, start time, end time and channel number.
- 4 Transmit your programmed timer data with TRANS.

Details are on pages 37 and 38.

Atternate Cable Hookup

Recommended Use:
This hookup will allow you to record either scrambled or unscrambled channels, however, you will have to set the channel on the cable box for each program you want to record. If your cable system scrambles all or most channels, you must use this hookup. If your cable system only scrambles a few channels, you may prefer Hookup 3 or 5 (on pages 16 and CQ, respectively). Please note that Hookup 3 will not allow you to record scrambled channels. unscrambled channels, but will require that you purchase a few extra parts at your local electronics store.

Hookup 5 will allow you to record either scrambled or

channels, usually premium or pay-per-view channels. Although this hookup will also allow you to record these scrambled channels, you must use the cable box rather Background This VCR can record virtually any unscrambled cable channel. Some cable systems "scramble" specific than the VCR to select channels.

Set the RF UNIT on the VCR's rear panel to 3 CH or If you made A/V connections, skip this adjustment. 4 F.



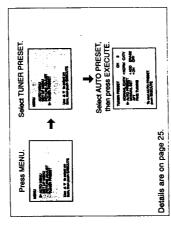
2 Switch on your cable box .

3 Preprogram the channels into the VCR.

MATCH THE CONNECTION ON YOUR TV

CABLE BOX

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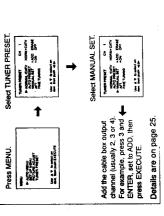


UHF (NO CONNECTION)

VHF/UHF IN

00

Add the cable box output channel (usually 2, 3 or



Record with the cable box turned off.
 Record by selecting channels directly from the

What You Can't Do

What You Can Do

Record any channel by selecting the channel on the cable box.

What You Can and Can't Do With This Hookup

Record one channel while watching another

channel.

Clock Setting

VCR Setup (Alternate Cable)

Open the cover of the Remote Commander.



2 Press CLOCK SET.

3 Press DAY to set the date, month and year.

4 Press H (hour) and M (minute) under the TURN OFF section to set the hour and minute.



5 Transmit the setting to the VCR with TRANS, and close the cover.

Details are on page 24.

To Watch TV

1 Turn your VCR off, or press the VCR's TV/VTR button until the VTR indicator in the display window goes off. 2 Switch on your cable box.

3 Tune the TV to the cable box output channel (usually 2, 3, or 4).

4 Select the channel that you want to watch with your cable box.

UHF (NO CONNECTION)

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WHF/UHF OUT

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.

1 Tune the TV to Ch 3 or Ch 4, (or to A/V input if you made A/V connections) To Watch the VCR

Insert a cassette and press ▷ PLAY.

Details are on page 31.

To Record a Program Using the Timer

1 Insert a cassette

Switch on the cable box.

3 Select channel you wish to record on the cable box.

4 Open the cover of the Remote Commander.

Press DAY, TURN ON, TURN OFF and CH to set date, start time, end time and channel number. The channel number must be the same as the cable box output channel.

Transmit your programmed timer data with TRANS.

Leave the cable box ON.

Details are on pages 37 and 38.

Hookups and Getting Started | 19

Advanced Cable Hookup

Recommended Use:
By using the AIS switch, this hookup allows you to record most channels directly from the VCR (position "A"). You only use position "E" and the cable box if you want to record a "scrambled" channel. This gives you the most convenient operation of the VCR.

Background

channels by selecting "A" on the A/B switch, and tuning the channel directly on your VCR. To record "scrambled channels, select "B" on the A/B switch, and select the channel using the cable box. If your cable system channels, usually premium or pay-per-view channels. This hookup will allow you to record unscrambled This VCR can record virtually any unscrambled cable channel. Some cable systems "scramble" specific scrambles all or most channels, you must use the alternate cable hookup (Hookup 4) on page 18.

VCR Setup (Advanced Cable)

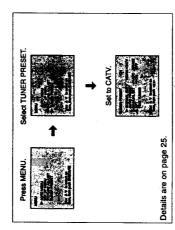
を変え

Set the RF UNIT on the VCR's rear panel to 3CH or If you made A/V connections, skip this adjustment.



2 Set the A/B switch to "A".

Set NORMAL/CATV to CATV.



MATCH THE CONNECTION ON YOUR TV

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WE CONNECTION)

Preprogram the channels into the VCR.

UHF (NO CONNECTION)

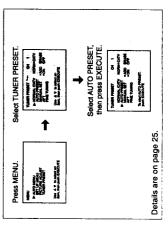
P

VHF/UHF OUT

VHF/UHF IN

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9



Record scrambled channels directly without the cable box.

What You Can't Do

Watch a different channel while you are

Record unscrambled channels directly with the AMS switch in the "A" position. Hecord scrambled channels through the cable box with the AMS switch in the "B" position.

What You Can Do

What You Can and Can't Do With This Hookup

recording a scrambled channel.

Record scrambled channels through the cable box with the A/B switch in the "A" position.

Add the cable box output channel (usually 2, 3, or 4). THE PERSON NAMED OF T Select TUNER PRESET Select MANUAL SET channel (usually 2, 3 or 4). For example, press 3 and ENTER, set to ADD, then Details are on page 26. Add the cable box output press EXECUTE. Press MENU. 語れには 10

Clock Setting

1 Open the cover of the Remote Commander.



2 Press CLOCK SET.

3 Press DAY to set the date, month and year.

Press H (hour) and M (minute) under the TURN OFF section to set the hour and minute.



5 Transmit the setting to the VCR with TRANS, and close the cover.

Details are on page 24.

A/B SWITCH A (NOT SUPPLIED)

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SPLITTER

CABLE BOX

Only one cable is supplied with your VCR. Prepare additional cables for connection.

To Watch TV

- 1 Turn your VCR off, or press the VCR's TV/VTR button until the VTR indicator in the display window goes off.
 - Set the A/B switch to "B".
- Switch on your cable box
- 4 Tune the TV to the cable box output channel (usually 2, 3, or 4).
- After watching the TV, please remember to return the A/B switch and cable box channel to the correct Ř

5 Select the channel you want to watch with your cable

To Watch the VCR

- Tune the TV to Ch 3 or 4, (or to A/V input if you made AV connections).
- Insert a cassette and press ▷ PLAY.

Details are on page 31.

To Record a Program Using the Timer

- Unscrambled Channels insert a cassette.
- Open the cover of the Remote Commander. 2 Switch the A/B switch to "A". **-16-**
- 4 Press DAY, TURN ON , TURN OFF and CH to set
- date, start time, end time and channel number
- Transmit your programmed timer data with TRANS.
- 6 Leave the A/B switch in "A".

Scrambled Channels

- Insert a cassette.
- Switch the A/B switch to "B".
- Select the channel you want to record on the cable Switch on your cable box

Open the cover of the Remote Commander.

- 6 Press DAY, TURN ON, TURN OFF and CH to set date, start time, end time and channel number. The channel number must be the same as the cable box output channel.
 - Transmit your programmed timer data with TRANS.
 - 8 Leave the A/B switch in "B".

Details are on pages 37 and 38.

Preparing the Remote Commander

Inserting Batteries



1 Open the lid.

2 Insert two size AA (iEC designation R6) batteries with the polarity lined up correctly.

3 Close the lid.

2

- Notes on the handling of batteries
 With normal use, the batteries should last for approximately six months.
 If you do not use the Remote Commander for an extended period of time, remove the batteries to avoid possible damage from battery leakage.

 To not use a new battery together with an old one. Do not use different types of batteries.

Setting the Command Mode

You can select three different positions for Command Mode setting.

- Set the COMMAND MODE VTR 1/2/3 selector on the rear panel of the VCR to
- 2 Press the COMMAND MODE button on the Remote Commander to display VTR 2 in the LCD panel. When you insert the batteries into the Remote Commander, the indication "VTR 2" appears.

D H M CH



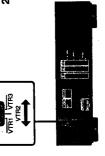
Controlling Other Sony Video Equipment

Press the Remote Commander COMMAND MODE button to display VTR 1 or VTR 3, a position other than the one you selected for this VCR.

COMMAND MODE

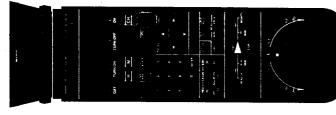
Set the COMMAND MODE selector of any other video equipment to the same position you selected in step 1. If other Sony video equipment does not have a COMMAND MODE selector, you can control such equipment using the following settings:

Infrared remote controlled Sony Betamax VCRs: VTR 1 (Some of them may not be controlled in this mode.) Sony 8mm format VCRs: VTR 2 Sony VHS format VCRs: VTR 3



in the LCD panel. That tells you that the command mode setting of the Remote Commander is set to "VTR 2". into the Remote Commander, the indication "VTR 2" appears When you insert the batteries

Setting the Time and Date



if "-:--" lights up in the display window of the VCR

If the power is interrupted for more than one hour, "-: --" lights up in the display when the power is restored. You will have to reset the date and clock again.

If a short beep sounds repestedly quick-timer recording mode and the The VCR is in timer recording or

5 Press the H (hour) and M (minute) buttons under the TURN OFF section to set 9:30 A.M.

If the batteries are replaced setting cannot be transmitted

Commander is correct but the VCR's clock is incorrect if the clock on the Remote Reset the clock correctly.

Open the cover of the Remote Commander and press

 Point the Remote Commander to CLOCK SET.

transmitted in hours, minutes and the VCR and press TRANS. The present time is correctly

24 | Setting the Time and Date

You can set the time and date between years 1992 and 2007. After setting the year, month, date and time, transmit them to the VCR.

Before you begin

- Use the + side of the clock set buttons to increase the digit.

 Use the side of the clock set buttons to decrease the digit.

 You do not have to set the day of the week.

 The day of the week is automatically set after the date is set.

Example of Time and Date Setting

Example: To set to 9:30 am, July 4, 1992

- Open the cover of the Remote Commander.
- 2 Press CLOCK SET
- 3 Press D (DAY) until "M7 Y92" appears. The day is advanced slowly up to 30 (31) days ahead and then the month is

advanced.

次:0000

14 792 E

When the number of your desired month appears, release your finger from the

192 4 Press D (DAY) until "4D" appears. The day of the week is set automatically.



192

Point the Remote Commander at the VCR

and press TRANS.

A beep sound confirms that the date and clock setting has been correctly transmitted to the VCR and stored in the VCR as well.

The clock on the VCR will start counting.

7 Check the display window on the VCR and close the cover.

Presetting the Active Channels



This VCR is capable of receiving VHF channels 2 to 13, UHF channels 14 to 69 and CATV channels 1 to 125. These channels can be preset using the Remote Commander and the TUNER PRESET display. First, we recommend that you preset the active channels in your area using the automatic preset mode. Then, if there are any unwanted channels, disable them manually. If you have already decided which channels you wish to preset on the VCR, set them directly using the dhannel number buttons.

Before you begin

Before presetting channels, check the following points:

- Turn on the VCR and the TV.
- If you have connected the TV and the VCR using the VHF/UHF OUT on the VCR only, make sure that the TV is set to the correct channel (Ch 3 or Ch 4) for the
- Press TV/VTR to display the VTR indicator in the display window on the VCR.
 Press INPUT SELECT so that the TUNER indicator and the channel number
- appear in the display window on the VCR. Use ▲ and ▼ to move the cursor (▶).
- Use < and ▶ to select the items.
 To quit setting in the middle of the procedures, press MENU.

= 1

- Table 1

Presetting All Receivable Channels **Automatically**

- The main MENU appears. Press MENU
- Press ▲ or ▼ to move the cursor (▶) to TUNER PRESET.
- Press EXECUTE.
- The TUNER PRESET menu is displayed.
- 4 Press ▲ or ▼ to move the cursor to NORMAL/CATV.

MUNICAL CATY HOME CATY
AUTO PRESET - AUTO PRESET - AUTO PRESET - AUTO PRIVATE - AUTO PRIVATE - CALO OFFICE - CALO

Man Ave beared

Use A V is exist on lien, then push EUECUTE

ATTO BENEFIT OF THE PARTY OF TH

- NORM presets the VHF and UHF channels; CATV presets your cable TV channels. The lowest channel number 2 for NORM, and 1 for CATV, will appear on the screen.
- 6 Press ▲ or ▼ to move the cursor to AUTO PRESET.
- 7 Press EXECUTE.

Receivable channels are preset in numerical sequence.

When no more channels can be found, the presetting stops and the picture of the lowest numbered channel is displayed on the TV screen.



VCR's tuner is receiving an optimal broadcast signal, the indicator stops at the center position or one space right or left of the center position. broadcast is received in an optimal condition, the indicator shows the operable fine-tuning range and stops at the optimal point of reception. When the The FINE TUNING Indicator The FINE TUNING indicator However, even when a

Presetting Desired Channels or **Disabling Unwanted Channels**

After automatic presetting is completed, you can disable and/or add channels.

Before you begin

- Use ▲ and ▼ to move the cursor (▶).
- Use and to select the items.
 To quit setting in the middle of procedures, press MENU.
- Follow steps 1 through 3 in "Presetting All Receivable Channels Automatically" on page 25.
- 2 Press CHANNEL +/- on the VCR, or press channel number buttons (0 through 9) on the Remote Commander
 - and ENTER to select the channel.
- 4 Press EXECUTE.

When you press CHANNEL +/-, the disabled channels are removed and the added channels are displayed.

Fine-Tuning

Normally, the Auto Fine Tuning (AFT) setting on the TUNER PRESET menu is set to ON, and the AFT function fine-tunes the picture. If the picture of a channel is not acceptable, fine-tune it manually.

- Referring to steps 1 through 3 in 'Presetting All Receivable Channels Automatically' on page 25, display the TUNER PRESET menu.
- 2 Press ▲ or ▼ to move the cursor to FINE TUNING The fine tuning indicator is displayed.
- 4 If you cannot get a better picture, press ▲ to move the cursor to AFT and select ON. Then, press EXECUTE.



Pay cable TV systems use scrambled or encoded signals and require special. converters (decoders) in addition to the normal cable connection.

Notes

Cable TV Channel Assignment

Cable TV systems use letters or numerals to designate the channels. To tune-in a CATV channel, refer to the chart below which shows the CATV channel, numbers on this VCR and the corresponding CATV channel. Note that the channel number assignment shown in the chart may not correspond to the channel number used by your local cable company. Check with your local cable TV company for more information on the available channels.

2 - 10 - 13 - 14 - 15 - 16 - 17	13 A B C D E
, ,	A-8 2
HOLD HOLD HOLD HOLD HOLD HOLD HOLD HOLD	Corresponding CATV channel

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	A-1
8	A-2
26	A-3
8	A-4
8	A-5
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37	W.1
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35	>
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100	W+59

The VCR is designed to correspond to the standard cable system. However, cable TV services may vary from area to area. Your local cable TV company may adopt either the HRC*1 or IRC*2 cable system. Even in these cases, this VTR is capable of receiving either of these cable systems in the best condition.

*1 HRC (Harmonic Related Carriers)

All channels except for 5 and 6 are 1250 KHz lower than the standard cable system. Channels 5 and 6 are 750 KHz higher than the standard cable system.

*2 IRC (Incremental Related Carriers)

All channels except for 5 and 6 are the same as the standard cable system. Channels 5 and 6 are 2000 KHz higher than the standard cable system.

FINE TUNING indicator for receiving HRC or IRC cable systems

Even when the signals are received in optimal condition, the FINE TUNING indicator will not stay at the center position for channels higher or lower than the standard cable system due to the difference in the frequency.

may not be at the position

Using the SET UP MENU



Before using the VCR, set options in the SET UP MENU display to your preferred position.

Before you begin

- Use ▲ and ▼ to move the cursor (►).
- To quit setting in the middle of the procedures, press MENU. Use ◀ and ▶ to select the items.
- 1 Press MENU. The main MENU appears.

2 Press ▲ or ▼ to move the cursor (▶) to SET UP MENU.

Use 4 V to cefed on them, then push EXECUT

- 3 Press EXECUTE.
- The SET UP MENU appears.
- 4 Press ▲ or ▼ to move the cursor (▶) to the desired menu Next, press < or ▶ to move the dot (*) to select your choice. (see "Menu Choices" below.) desired mode setting.
- The settings are stored unless the power plug is disconnected. 5 Press EXECUTE to return to the original screen.



Menu Choices

LANC MODE

If you control another VCR using the synchronized editing function of this VCR, set

Set to S in a case except above-mentioned. (For details, see page 70.)

SHUTTLE MODE

- When you perform synchronized editing on a playback VCR without the reverse slow playback function, such as CCD-TR series and EV-S550, set to A.
 When you perform synchronized editing on a playback VCR with the reverse slow playback function such as CCD-V701/V801 and EV-S900, set to B.
 (For details, see page 70.)

AUTO STEREO

If a stereo program's reception is poor, set to MONO. The program is recorded in monaural but the sound quality may improve. (For details, see page 36.)

What is the data code?

seconds) registered on the tape during recording. It may be during recording, it may be credistered on an 8mm video camere auch as CCD-V801.
When a tape of this kind is played back on this VCR with the DATA CODE option set to ON, Information is displayed on the TV exceen as follows. However, information may not be displayed correctly in variable speed playback mode such as play peuse. The data code is information of the record year, month, date and time (hour/minutes/



- AUTO ANT SEL (Automatic Antenna Selector)
 If your TV is connected only to VHF/UHF OUT on the VCR inputs, set to AUTO.
 - When playing back a cassette, the picture is automatically displayed on the screen simply by selecting the channel for the VCR on the TV. To watch TV programs selected on the TV, press TV/VTR to turn off the VTR indicator in the display
- If your TV is connected to both VHF/UHF OUT and MONITOR OUT on the VCR, set to MAN.
- When playing back a cassette, select the input for the VCR on the TV. To watch the TV programs selected on the TV, select the tuner input.

AUTO SAP

When you do not want to record a SAP sound during receiving a SAP broadcast, select OFF. For details, see page 36. When you want to record a SAP sound on the standard track, select ON. Every time there is a SAP (Second Audio Program) broadcast, SAP sound is recorded. DATA CODE

If you want to display data code (date/time) information on the TV screen when you play back a tape recorded on a VGR which can register data codes, select ON.

If you do not want to display them, select OFF.

AND THE PERSON NAMED IN COLUMN

Playback

This section shows you how to play back a video cassette.

Caution

to stick their fingers into the cassette loading slot. This may cause injury. Be careful not to allow children

Inserting a Video Cassette

1 Insert a video cassette

2 Gently press the center of the front side of the cassette until the mechanism draws

It into the compartment. When the cassette indicator $\overline{\mathbf{z}}$ lights in the display When the cassette has been loaded, the cassette indicator $\overline{\mathbf{z}}$ window and the VCR turns on automatically.

Ejecting the Cassette

Press ≜ EJECT on the VCR. You can eject the cassette when the power is off. When you press ≜ EJECT, the power is turned on. After ejecting the cassette, the power automatically shuts off.

You cannot eject a cassette during recording or recording pause mode.

Cassette Care

- Always insert the cassette in the correct position.
- Never insert anything in the small holes on the rear of the cassette.
- Store cassettes in their cases and keep them in an upright position to prevent intrusion of dust and uneven winding.
- To record from the beginning of the tape, run the VCR for about 15 seconds at the beginning of a cassette before recording.
 - When the VCR is not in use, remove the cassette.
- Stick the cassette label in the designated area.
 - Securely stick the label not to let it peel off.

Maximum recording time of a cassette

							_		ı	_
ayback Time	LP mode	30min	40min	14	1h 30min	2h	ЗН	4h	4h 30min	54
Recording/Playback Time	SP mode	15min	20min	30min	45min	4	1h 30min	3	2h 15min	2h 30min
Prof. of the Contract of the C		P6-15	E6/P6-20	E6/P6-30	P6-45	E6/P6-60	06-9d	E6/P6-120	P6-135	P6-150

Protecting your cassette against accidental erasure To prevent accidental erasure, slide out the tab on the cassette so that the red

color is visible.

To re-record on the cassette, slide the tab back.

30 | Playback



Playing Back a Cassette

The VCR automatically detects the type of video system in which the tape was recorded (Hi8 or standard video system, for details see page 54) and plays back the tape accordingly. When a tape recorded in Hi8 video system is played back, the Hi8 indicator on the VCR lights up.

Insert a cassette

The VCR turns on automatically.

- If your TV is connected to both the VHF/UHF OUT and MONITOR OUT (or LINE OUT) on the VCR, select the input for the VCR. If your TV is connected only to the VHF/UHF OUT on the VCR, select the channel for the VCR (Ch 3 or Ch 4). Turn on the TV.
- 3 Press ▷ PLAY.

To stop playback Press STOP.

To stop playback for a moment.

Press II PAUSE.

Press II PAUSE again or press ▷ PLAY to resume playback.

To advance the tape rapidly Press ■ STOP, then ▶► FF.

To rewind the tape. Press ■ STOP, then ◀◀ REW.

To view the picture during fast forward mode or rewind mode You can view the picture momentarily while the VCR is in the fast forward or rewind

Keep pressing ▶▶ during fast forward, and keep pressing ◀◀ during rewind. Release the button to return to fast forward or rewind. mode.

To eject the cassette

Press ≜ EJECT on the VCR.

This may cause the tape to be jammed in the VCR. When you need to unplug the power cord, be sure to remove the cassette or turn off the power of the VCR.

Never unplug the power cord during tape transportation

Pressing ▲ EJECT when the VCR is turned off will turn the unit on, eject the cassette and then turn it off again. When the tape reaches the end during playback The VCR automatically rewinds the tape to the beginning and the power remains on.

To turn the VCR on or off Press POWER.

, T.

The Data Screen

To turn off or call up the data screen on the TV screen, press DATA SCREEN on the Remote Commander.



When the data screen does not appear on the TV screen Check to see that the MONITOR OUT jacks are connected to the line input jacks of the TV. If you connect your TV to the LINE OUT jacks, the DATA SCREEN doesn't

Indexing Tape Contents

Before recording or playback, press COUNTER RESET on the VCR to reset the counter to zero. The counter installed in the VCR is called a "linear time counter", which tells you how much the tape has run in terms of time. By noting the setting, you can find that point later by referring to the counter. Use the label on a cassette too list the programs and their counter readings. Since the counter is not so accurate, use it only for reference.

Playing Back Externally-Recorded **Fapes**

When playing back a cassette recorded on another VCR, the tracking condition is automatically adjusted. You can also adjust the sharpness using the PICTURE ADJUST menu (for details, refer to "Adjusting the Picture Quality" on page 53.

When no recording is made on the PCM track

position, the sound recorded on the standard track is heard.

If you select PCM or MIX

When a cassette is recorded on VCR without PCM function

If you select the PCM position,

the sound recorded on the standard track is heard.

in stereo mode, connect a stered

system additionally.

To monitor the playback sound

When a TV without VIDEO/ AUDIO input is connected

Selecting the Monitor Sound

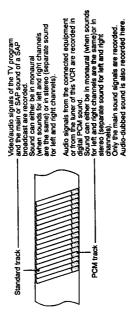
AUDIO MONITOR § ₹ (£

You can select the sound you want to hear with the AUDIO MONITOR selector when you play back the following cassettes:

• when second audio program (SAP) is recorded

when audio/narration is added (audio dubbed cassettes)

The sound you want to hear is recorded on the standard track or on the PCM track on a tape (See the diagram below). To select the sound, change the position of the AUDIO MONITOR selector on the VCR.



When second audio program (SAP) is recorded:

recorded on a video camera recorder or a VCR without the PCM function is played back on

When a tape which has been

When no sound is heard during playback or the PCM indicator blinks

this unit, the sound may not be

heard or be heard only

	TO THE TANK OF MONITOR Selector	Track to the
SAP* sound	STD	Standard
Main sound	PCM	PCM
poth	MIX	Standard/PCM

the AUDIO MONITOR selector.

The PCM indicator may continue to blink but the sound is heard

In such a case, select STD on

SAP sound is recorded in monaural. For recording SAP sound, see page 36.

When audio/narration is added (audio dubbed cassettes):

۱2	To monitor	Position of the AUDIO MONITOR selector Track to be played back.	Track to be played beck
<u>a</u>	punos peggn	PCM	PCM
δ	Original sound	втр	Standard
ğ	£	MIX	Standard/PCM

the counter reading is retained. When a cassette is inserted in the VCR, the counter reading automatically returns to "OHOOMOOS". The counter does not work on the portions on which no After a cassette is ejected, recording has been made.

Notes on counter reading

Recording

VCR detects the type of video tape (Hill video tape or standard 8mm video tape) on which you want to record, and the VCR starts recording accordingly. So, normally set the Hill setting on PICTURE ADJUST menu to AUTO. However, if you intend to play back on another standard 8mm video recorder, set the Hill setting to OFF on the PICTURE ADJUST menu (for details, see "Selecting Recording System" on page 54). You can record in the Hi8 video system or the standard 8mm video system. The



Type of video tape and video system in which a tape is recorded

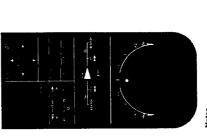
Per las legals	His setting on PicTURE. ADJUST from SERVING	Video system
	AUTO	Hi8 video system
Alic video tape	OFF	Standard 8mm system
	AUTO	Standard 8mm system
Standard 8mm video tape	OFF	Standard 8mm system

Before you begin

Before you begin, check the following points:

- Make sure that the connections have been made correctly (see pages 13 20.)
 Check the input mode indicator in the display window of the VCR.





Notes

When the cassette reaches the end

The cassette rewinds to the beginning and the power remains on. If the tape is ejected when the REC buttons are pressed The tab on the cassette is slid out. Slide the tab in or use a new cassette.

Recording TV Programs

- insert a cassette. The VCR turns on automatically (Auto power on).
- 2 Turn on the TV.
- If your TV is connected only to the VHF/UHF OUT on the VCR, select the channel 3 if your TV is connected to both the VHF/UHF OUT and MONITOR OUT (or LINE OUT) on the VCR, select the input for the VCR. for the VCR (Ch 3 or Ch 4).
- 4 if your TV is connected only to the VHF/UHF OUT, then press TV/VTR so that the VTR indicator lights up. Skip this step if your VCR is connected to both the VHF/UHF and MONITOR OUT (or LINE OUT).
 - 5 Press INPUT SELECT to light TUNER in the display window of the VCR. Select the channel to be recorded with CHANNEL +/- or channel number buttons. 6 Select SP or LP with TAPE SPEED (SP/LP).
 - To select the best recording tape speed, see "Maximum recording time of a
- Press the two REC buttons on the Remote Commander at the same time, or the REC button on the VCR. cassette" on page 30.
 - The REC recording indicator lights up in the display window of the VCR.

To stop recording Press STOP.

To pause recording
Press II PAUSE. To resume recording, press II PAUSE. When the recording pause mode lasts for approximately 7 minutes, the VCR enters stop mode.

Pausing

Technique 1

You can stop recording an unwanted scene and resume recording smoothly.

- Recording will stop and the VCR enters recording pause mode. Press II PAUSE when an unwanted scene appears.
- 2 Press # PAUSE at the desired point to release pause mode.
- Recording resumes from the point set in step 1.

Technique 2

When an unwanted scene has already started recording, you can rewind the cassette to the desired point, have the VCR standby in recording pause mode, and resume recording at the desired scene.

- 1 Press II PAUSE to set the VCR to recording pause mode.
- 2 Turn the EDIT SHUTTLE ring on the VCR to the left to search for the point from which you wish to continue recording.
- 3 Release the EDIT SHUTTLE ring on the VCR at the desired point. After an instant in still mode, the VCR automatically enters recording pause mode.
 - 4 Press III PAUSE.

Recording resumes.

Recording 35

Timer-Activated Recording



Turn off the power of the TV or monitor. There will be no interference with the recording.

Watching One TV Program While Recording Another

1 Press TV/VTR so that the VTR indicator goes off.

HO H H TURNOFF

Turbu CH

2 Select the channel you want to watch on the TV.

VTR Indicator	Picture on the TV screen
5	Channel selected by the VCR or the playback picture of the VCR
Unik	Channel selected by the TV

Recording Multi-channel TV Sound **Broadcasts**

To record a stereo broadcast:

When a stereo broadcast program is received, the STEREO indicator appears in the display window of the VCR. The stereo program is automatically recorded in stereo. If the reception of a stereo program is poor, set AUTO STEREO to MONO on the SET UP MENU. (See page 28.) The sound is heard in monaural but the noise is reduced.

Normally, set AUTO SAP to ON in the SET UP MENU. SAP sound is recorded on the standard track in monaural if there is a SAP broadcast. When the VCR receives a SAP broadcast, the SAP indicator lights up in the display window of the VCR. To record SAP (Second Audio Program) broadcast:

When the TV is connected only to the VHF/UHF OUT on the VCR, you cannot hear the program in stereo.

When you do not want to record a SAP sound while receiving a SAP broadcast, select OFF of the AUTO SAP setting in the SET UP MENU. Only the main sound is recorded on the standard track.

To monitor the SAP sound during recording, set the AUDIO MONITOR selector to STD.



The timer recording function lets you preset your VCR to record up to six programs within a one-month period. Perform this procedure on the Remote Commander and transmit the preset data to the VCR.

Before you begin

- Make sure that the time and date clock is set correctly (see "Setting the Time and Date" on page 24.)
 - Check to see that the cassette is long enough to record all the programs.
- Make sure that the safety tab of the cassette has not been slid out. If you insert a
 cassette with the safety tab visible in red (closed) and try to set the timer, the
 cassette automatically ejects from the VCR.

Setting the Timer

Here is how to record a program broadcast on channel 26 from 9:00 pm to 10:55 pm on Friday, July 10 in LP mode.

- 1 Open the cover of the Remote Commander. The Remote Commander enters timer preset
- Never close the cover until you finish transmitting the program data to the VCR.
- Press D (DAY) until 10 appears. The day of the week (Friday) is automatically set.
- Press H under the TURN ON section until 9 PM appears.
- Press M under the TURN ON section until 00 appears.
- 5 Press H and M under the TURN OFF section until 10 PM 55 appears.







(Continued)

36 | Recording

Set the recording speed, SP or LP, with TAPE SPEED (SP/LP).

,0°90°00°° Press CH (CHANNEL) until 26 appears. (If you wish to record a cable TV program, display CATV in the LCD panel with NORM/CATV, then select the desired channel.) The "TRANSMIT" indicator blinks to

VTR TAPE SPEED

five minutes after you have entered all the 8 Point the Remote Commander to the VCR and press TRANS. Press TRANS within

indicate that all of the items are entered.

10 % 90:00 m

VIR INFE SPEED

A beep sound will tell you that the preset data have been transmitted to the VCR, and the VCR enters recording standby mode. The TIMER REC indicator lights up in the display window of the VCR.

To set another program, repeat steps 2 to

appears on the LCD panel.
The VCR turns on automatically and starts recording at the preset time, then Commander so that the present time turns off after the recording ends. 9 Close the cover of the Remote

To stop timer-recording
To stop timer-recording while a program is being recorded, press TIMER REC (ON/ OFF).

To record video sources from LINE IN 1 or 2 jacks
Press INPUT SELECT in step 7 to change the input indication in the LCD panel from
CHANNEL to L1 or L2. Select LINE 1 or LINE 2 according to the input jack used.

75 05 E EVEN EVERTY TO 1 EVERY 84

during timer recording, recording, recording will stop and your VCR will furm off. If power is restored within one hour, and it's before the recording and time, recording will start again from that point. If the interruption lasts for more than one hour, any presettings will be erased and you'll need to reset the time and date for your programs. Note that the tape counter will return to "OHGOMOOS". If power interruption occurs

Daily/Weekly Recording

You can preset your VCR for daily or weekly recording.

Daily recording records the same program every day of the week while weekly recording records the same program on the same day, every week. In step 2 of the "Setting the Timer" section (page 37), press the – side of the D button to change the indication on the LCD panel to one of the choices. (See the diagram at left.) When you set and transmit your preset data to the VCR, the corresponding indicator lights in the display window of the VCR.

The Timer Recording Standby Mode

When you return the VCR to the timer recording standby mode, you can record any previously preset programs. The VCR turns on automatically to record the first preset program. When it finishes recording, the power automatically shuts off. To stop recording while a program is being recorded, press TIMER REC (ON/ OFF).

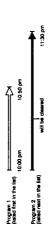
Buttons Operable During Timer Recording

TIMER REC (ON/OFF)	To stop recording.
COUNTER RESET	(See "Indexing Tape Contents" page 32.)
TV/VTR	(See "Watching One TV Program while Recording Another", page 36.)
DATA SCREEN	(See "The Data Screen", page 32.)
TIMER REC CHECK	(See "Changing or Cancelling the Timer Settings", page 42.)
TIMER ON SCREEN	(See "Checking the Timer Settings", page 41.)

Overlapping Timer Recordings

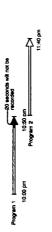
Case 1 If you preset two programs to record at the same time...

The program listed first on the PROGRAM LIST display has priority over the other programs. The timer settings for lower priority programs will be deleted from the PROGRAM LIST display when recording begins for the first program.



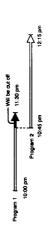
If you set program 2 to record at the same time you set program 1 to finish recording....

The last 20 seconds of program 1 will not be recorded.



If you set program 2 to record before program 1 has finished recording... Case 3

Program 2 will begin recording before program 1 has finished.





Checking the Timer Settings

Here's how to display your timer settings to confirm the programs you wish to

1 Press TIMER REC (ON/OFF) to release timer recording standby mode. The TIMER REC (recording) indicator turns off in the display window of the VCR.

2 Press POWER to turn on the VCR.

3 Turn on the TV.

If your TV is connected to LINE OUT, you cannot display on-screen information.

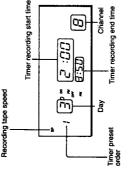
4 Press TIMER ON SCREEN.
The PROGRAM LIST appears on the TV screen for your checking.

5 Press TIMER REC (ON/OFF) to return to timer

recording standby mode.

The TIMER REC (recording) indicator turns on in the display window of the VCR.

To check the timer setting without using the PROGRAM LIST display Press TIMER REC CHECK. Each time the button is pressed, timer preset data will appear in the display window the VCR in the preset order. You do not have to release timer recording standby mode.



• If your set a program to record only one time, that setting is erased from the PROGRAM LIST display when the recording has finished.

To check the timer settings during timer recording, press TIMER ON SCREEN.

2 Change the setting and press TRANS to transmit it to the VCR.

Changing or Cancelling the Timer Settings

Here's how to change or cancel any timer settings on the PROGRAM LIST display.

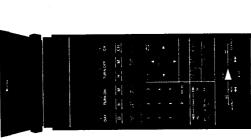
- Display the PROGRAM LIST display on the TV screen. Follow steps 1 through 4 of the "Checking the Timer Settings" (page 41) section.
- 2 Press TIMER REC CHECK to display the cursor (▶).
- 3 Press TIMER REC CHECK to move the cursor (*) to the setting you want to change or cancel.

To change the setting, Resented at the VTR. (See "Setting the Timer" on page 37.) The VCR returns to timer recording standby.

To cancel the setting, Press TIMER REC CLEAR.

To change timer settings without using the PROGRAM LIST display

1 Press TIMER REC CHECK repeatedly until the program you want to clear appears in the display of the VCR.



To cancel the timer settings without using the PROGRAM LIST display You can erase the setting you do not want while referring to the display window on the VCR.

- 1 Press TIMER REC ON/OFF.

 The TIMER REC (recording) turns off in the display window of the VCR.
- 2 Turn on the power of the VCR.
- 3 Press TIMER REC CHECK repeatedly until the program you want to cancel appears in the display window.
- 4 Press TIMER REC CLEAR.

 The timer setting of the selected program is cancelled.

Using the VCR Before Timer Recording Starts

If you want to use your VCR while it's in timer recording standby mode, you must first turn off the TIMER REC (recording) indicator in the display window of the VCR. 1 Press TIMER REC ON/OFF.
The TIMER REC (recording) in the display window turns off and the VCR leaves the timer recording standby mode.

- 2 Press POWER. The VCR is ready to use.
- 3 After using the VCR, press TIMER REC (ON/OFF). The VCR returns to the timer recording standby mode.

Variable Speed Playback



Still Picture

The following section explains the advanced playback functions available on your VCR. No sound is heard during these operations.

During playback, press II PAUSE to hold the picture in one place.

To resume normal playback, press either ▶ PLAY or II PAUSE.

If you leave your VCR in pause mode, normal playback resumes after approximately 7 minutes.

SHUTTLE Ring Operation

Using the SHUTTLE ring on the Remote Commander during playback or playback pause, you can play back cassettes at a variety of speeds, in the forward direction or reverse direction.

Turn the SHUTTLE ring clockwise to advance the tape in the forward direction. Turn the SHUTTLE ring counterclockwise to advance the tape in the reverse

The playback speed depends on how far you turn the SHUTTLE ring. When you release the SHUTTLE ring, the VCR returns to playback pause mode.



* This operation is also available with the x2 button on the Remote Commander.

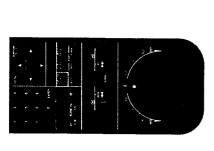
streaks may appear on the picture, the picture may flicker and the color may not be reproduced properly depending on the speed or the direction. This is not a malfunction.

During variable speed playback,

Picture Search (During Playback)

Press ▶▶ FF or ▲◀ REW during playback

When you release your finger from the button, normal playback will resume.



Locked Picture Search

This operation works only on the Remote Commander

Press SEARCH on the Remote Commander during playback or playback pause. For the reverse direction, press the left SEARCH button. For the forward direction, press the right SEARCH button.

Press ▶ PLAY to return to normal playback.

Auto Play

You can start playback automatically after rewinding a cassette.

This operation works only on the VCR.

Press ➤ PLAY while holding ◀4.

Playback starts automatically after the tape is rewound to the beginning.

The 'D' indication blinks while the tape is being

rewound.



Blinking while the tape is rewound.

Frame-by-Frame Picture

It takes about two or three seconds to reverse the direction in slow motion playback or frame-by-frame picture.

During playback pause, press FRAME to enter still mode, then press > to advance the picture one frame or < to reverse the picture one frame.

Each time you press the button, the picture moves one frame. To resume normal playback, press ▶ PLAY.

Variable Speed Playback 45

If the tracking bar is shifted too much, noise in the picture becomes too unstable to adjust. In this case, reset the tracking to the center position.

during reverse slow motion playback, the picture may stake or the color may not be reproduced properly or the color may disappear from the screen. If you adjust the tracking bar

Slow Motion Playback

This operation works only on the Remote Commander.

Press I► SLOW 1/10 (1/10 of normal speed) or 1/5 (1/5 of normal speed) during

To play back in slow motion in the reverse direction Press < .

To resume the forward direction

Press > .

To return to normal playback Press ► PLAY. If you leave the VCR in slow motion mode for more than one minute, the VCR will automatically return to normal playback to protect the tape against damage.

If snow or streaks appear during slow motion playback Adjust the picture on the PICTURE ADJUST menu.

This adjustment only works during slow motion playback.

Press MENU to call up the main MENU.

2 Press ▲ or ▼ to move the cursor to PICTURE ADJUST.

3 Press EXECUTE. The PICTURE ADJUST menu appears.

4 Press ▲ or ▼ to move the cursor (▶) to SLOW TRACKING.

5 Press

or

to move the

mark on the tracking bar so that
the picture will be shown on the screen more clearly.

6 Press EXECUTE. The PICTURE ADJUST menu disappears.



Assigning a Desired Operation — AUTO MENU



You can get the VCR to perform certain functions in sequence automatically. The AUTO MENI guides you to your desired sequential operations. You can choose from the six AUTO MENIU choices.

You cannot perform these operations while a cassette is not inserted or when the tape is being transported.

Before you begin

¥ 2 ¥

Use ▲ and ▼ to move the cursor.
 Use ◀ and ▶ to select items.
 To quit setting in the middle of the procedures, press MENU.

AUTO MENU Setting

- 1 Press MENU.
- The main MENU appears.
- 2 Press ▲ or ▼ to move the cursor (▶) to AUTO MENU.

- The display changes to "AUTO MENU" display. 3 Press EXECUTE.
- 4 Press ▲ or ▼ to select the desired menu choice. For menu choices, see the next page.





Index Function

Menu choices

PLAY-REW-POWER OFF Plays back the tape, rewinds the tape, rewinds the tape, rewinds the tape.

GO TO ZERO-STOP

Searches for the counter zero point and stops.

GO TO ZERO-PLAY

Searches for the counter zero point and starts playback

When marking index signals, leave an interval of at least 2 minutes between them so that the VCR can detect the signals correctly.

You cannot mark an index signal in the following cases:

REW-POWER OFF

Rewinds the tape to the beginning and turns off the power.

REW-PLAY

REW-TIMER REC

Rewinds the tape to the beginning and starts playback.

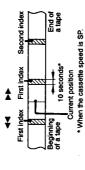
Rewinds the tape to the beginning and puts the VCR in timer recording standby mode when the timer is preset.



You can find specific locations easily using the markings (index points) recorded on a cassette. This function is called Index Function.

You can mark an index anywhere on a cassette, so that you can easily find the specific point later on. Index works as a divider between scenes, and is not numbered. So, when you specify the index mark later, you have to specify the relative position from the current position. (The first index, the second index....from the current position.)

You can mark and erase index signals during playback, while during recording you cannot erase them.



Marking Index Signals

Where you mark an index, the INDEX indicator flashes in the VCR's display window and the INDEX MARK indicator appears on your TV screen.

Immediately before a point on the cassette where the cassette speed (SP or LP) changes.

- On an unrecorded portion - On a cassette with a safety tab slid out (red mark visible)

of a tape

Automatic Index Mark

An index signal is automatically recorded at the beginning of a scene when you start recording.

When recording or playing a cassette, you can manually mark an index signal by pressing INDEX MARK. Manual Index Mark

A black streak appears at the bottom of the screen.



When you mark an index signal during playback, the recorded sound may not be clear or may not be heard.

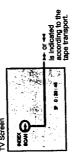
Playing Back from the Index Point — Index Scan

Here's how to find and play a program you've marked with an index signal:

- 1 Insert an indexed cassette into your VCR.
- 2 Press INDEX once.
 The INDEX and SCAN indicators flash alternately in the display window and the INDEX SCAN indicator appears on the TV screen.
- Press ◆ to find the previous program or ▶▶ to find the next program.

 The index scan locates the next index signal and plays about 10 seconds of tape prior to the signal. The VCR then rewinds or advances to the next index signal. Every time the VCR finds an index signal, playback begins.





4 When you find the program you want, press ▷ PLAY during 10 second preview. Playback starts from that point.

To stop index scan underway Press ▶ PLAY or ■ STOP.

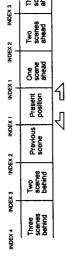
Loo Is f

Locating an index — Index Search

Locate an index by indicating how many index signals ahead or behind that program is from the cassette's current position. You can specify index number up to 19.

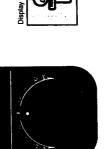
Here's how:

- 1 Press DATA SCREEN to display the data screen.
- 2 Press INDEX twice continuously.
- 3 Press CHANNEL/INDEX +/- to display the desired number. If you press INDEX again, you can increase the number. For example, the scene you want to view is located 3 scenes ahead the present position, display "INDEX SEARCH 3" if the scene is located three scenes behind the present position, display "INDEX SEARCH 4".



Martin And Application of the Parket

NDEX 4



	 Index to be searched for 			
TV Screen		.0	424	
2	37		A STATE	"

index to be searched for

Blinking

4 Press ▶▶ FF to find an upcoming index signal or ◄◄ REW to find a prior index

signal.

Every the cassette advances or rewinds to find the signal.

Each time an index signal is detected, the index number increases or decreases. When the index number reaches 0, it means you've located the specified scene and your VCR will begin to play.

A .

- At the beginning of the tape, you cannot erase an index
- the prerecorded 8mm Index recorded in

cassettes cannot be erased

Also, it may not be possible to erase index signals marked equipment on which the index signals were marked in order on other camcorders or VCRs cannot be erased on this unit. It is recommended to erase Some index signals marked index signals on the same to perform index erasing camcorders or VCRs. on this unit on other

Erasing Index Signals

- To remove any unwanted index signals, follow these steps:
- 1 Press INDEX once during playback or stop mode. When the data screen is on the TV screen, "INDEX SCAN STANDBY" appears.
- 2 Press ▶▶ FF to find the next scene or ◄◀ REW to find the previous scene. Each time an index is detected, the VCR plays back the indexed scene for approximately 10 seconds. It then rewinds or advances to the next index signal. This 10 second preview lets you decide whether you've located the index mark you want to erase.
- Press INDEX ERASE during 10 second preview.
 "INDEX ERASE" is displayed on the TV screen. The tape automatically rewinds to a position before that index, then the index is erased. During erasing, a black streak appears at the bottom of the screen. After erasing is complete, the next



What is TBC?

rotation and tape movement.

Time base correction reduces
deterioration of picture quality
when transmitting or copying playback signals by removing caused by irregularity in drum Abbreviation of Time Base Corrector. This feature roll in the playback picture electrically stabilizes the playback signals.

What is DNR?

successive video signals into a composite signal and reduces noise in the picture using the This feature makes prior and DNR is the abbreviation of Digital Noise Reduction. field memory.

functions which allow you to enjoy a clear, finely picture. This adjustment is only Your VCR is equipped with the "SHARPNESS", "TBC" and "DNR" adjustment effective during playback.

Adjusting the Picture Quality —

Sharpness/TBC/DNR

For picture adjustment during slow motion playback, see page 46. Selecting recording system (Hi8 video system or standard video system) is also important for high-quality picture. For selecting recording system, see page 54.

Perform the following adjustments according to the picture condition.

• To make a picture softer or sharper

- --> Use the SHARPNESS adjustment (see the procedure below)

 To stabilize the picture

N N CH

- -> Set to ON of the TbC option in the PICTURE ADJUST menu
 To reduce noise in the picture
- --> Use the DNR (Digital Noise Reduction) adjustment (see page 54.)

Before you begin

- Use ▲ and ▼ to move the cursor.
 Use ⋖ and ▶ to select items.

Sharpness Adjustment

- The main MENU display appears on the TV 1 Press MENU
- 2 Press ▲ or ▼ to move the cursor (▶) to PICTURE ADJUST.
- 3 Press EXECUTE.
 The PICTURE ADJUST menu appears on the TV screen.
 - 4 Press ▲ or ▼ to select "SHARPNESS".
- 5 Press 4 or ▶ to adjust the picture to your preference.
- The PICTURE ADJUST menu disappears from the TV screen and the original screen returns. 6 Press EXECUTE.



These indications do not appear on the screen.



52 | Index Function

PCM Audio Recording



When a cassette is inserted into the VCR, the VCR starts playback in DNR standard mode and the DNR indicator lights up on the front panel. If a cassette more deteriorated in quality is played back, press DNR on the VCR. Each time the DNR button is pressed, the DNR function works as follows:

Screen display this adjustment?	When you wish to play back a deteriorated cassette or decrease noise in the picture.	Normally use this level.	When you want to obtain a more detail-enhanced picture.
Screen display	DNR MAX	DNR STD	l
DNR level the front panel	Illuminated	Illuminated	Not illuminated
DNR level	→ Maximum	Standard	■ Minimum

The screen display turns off automatically.

x 1

Selecting Recording System

"High Eight Video System" on page 79.)
When the His indicator lights up on the front panel of the VCR, you can record in the When the His indicator lights up on the front panel of the VCR, you can record in the video system. If you intend to play back on a standard 8mm VCR, do the You can record a cassette in either HI8 video system or 8mm standard video system. You cannot perform HI8 recording with a cassette other than a Hi8 tape. (See "Type of video tape and video system in which a tape is recorded" on page 34, and

1 Call up the PICTURE ADJUST menu.

following steps to select Hi8 OFF.

- Follow steps 1 through 3 on page 53.
- 2 Press ▲ or ▼ to move the cursor (▶) to Hi8. The Hi8 indicator lights up.
- AUTO ... The VCH automatically detects the type of cassette to be used (Hi8 video tape or standard video tape) and recording is done accordingly (in the Hi8 video system or 8mm standard video system).
 - OFF --- When you intend to play back the Hi8 cassette on a standard 8mm video recorder.

4 Press EXECUTE.

The PICTURE ADJUST menu disappears from the TV screen.

You can record PCM audio sound from the built-in tuner or from a connected audio

equipment, such as a stereo system.

You can adjust the PCM sound by the REC LEVEL control located inside the front panel flap. Hi-Fi sound is automatically adjusted and does not work together with the REC LEVEL control adjustment.

To record with the built-in tuner, set this control to position 5 (optimum level

To record with an external audio equipment, adjust the recording level with the REC LEVEL control. Monitor the sound to be recorded and set the REC LEVEL control to the desired position while observing the peak level meter change in the display window of the VCR.



Peak level meter

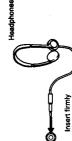
dB∞-403020 107 5 3 2 1 0 1 2 3 5 7+10 R INITIALIZATION NUMBER CONTROLL NUMBER CONTROL

Appropriate recording level

From CDs or DATs -----the peak level occasionally lights at the +10.

When using a microphone or headphones

- Select the LINE IN 1 or LINE IN 2 input when you use a microphone.
- The microphone input is monaural and mixed with the line input signal.
 - Do not use a plug-in power microphone.
- Insert the headphones firmly.



Quick-Timer Recording



This function is convenient for recording programs without going through the entire timer setting procedure. Note, however, that it provides only an approximate setting for the program you wish to record.

Before you begin

- Make sure that the clock has been set correctly.
- Check to see if the TIMER REC indicator does not light in the display window of the VCR.

Operation

If you're currently recording, skip to step 7.

- 1 Insert a cassette into your VCR.
- 2 Press INPUT SELECT to light the TUNER in the display window.
- 3 Select the desired recording speed (SP or LP) by pressing TAPE SPEED inside the front panel.

4 Press QUICK TIMER on the VCR. If you insert a cassette with the safety tab slid out, your VCR will eject the

5 Select the channel you wish to record using CHANNEL/INDEX +/-.
The channel can be changed while the channel indicator is blinking (for about 30 seconds).

- 6 Press QUICK TIMER again to start recording.
- 7 Select the recording duration by pressing QUICK TIMER to change the duration indicator in the display window.

 Each time you press QUICK TIMER, the recording duration increases by 30 minutes (up to 5 hours).



If your cassette ends during quick-timer recording Recording stops and the VCR turns off. The cassette will not rewind automatically.

Once recording has finished, your VCR will turn off automatically. During quick-timer recording, the recording time can be changed by pressing the QUICK TIMER button. During recording, the time displayed will count down in the

units of one minute.

interruption lasts less than one hour and the power is restored before the recording end time, recording will start again from that point.

recording
Recording will stop and your
VCR will turn off. If the If a power interruption occurs during quick-timer

To stop quick-timer recording: To stop quick-timer recording while a program is being recorded, press TIMER REC ON/OFF.

Buttons Operable During Quick-Timer Recording

TIMER REC (ON/OFF)	To stop quick-timer recording.
QUICK TIMER	To change recording duration.
COUNTER RESET	To reset the counter to zero.
INDEX MARK	To record an index signal.
TV/VTR	To watch the picture broadcast on another channel (TV).

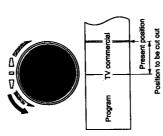
Cutting out the Unwanted Scenes — SHUTTLE EDIT



During Recording

If you wish to cut out scenes such as TV commercials, you can pause recording and play back the tape in the reverse direction until the beginning of an unwanted scene is reached. Then, record over it. This function only works on the VCR. During timer-activated recording, you cannot use this function.

- The VCR enters recording pause mode. Press II PAUSE during recording.
- 2 Turn the EDIT SHUTTLE ring on the VCR counterclockwise to rewind the tape until the unwanted scene appears.



For searching for more specific points, press ◀ II FRAME or FRAME II ▶ within 3 seconds after you released the ring. (After 3 seconds, the VCR returns to Turn the ring slightly. During rewinding, the screen changes to the playback picture, but sound is not switched. When you release the ring, the VCR enters recording pause mode.)

3 Press # PAUSE when an unwanted scene appears on the screen. Recording starts.



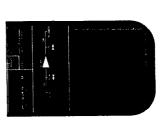
During Playback

You can re-record onto an unwanted portion of a pre-recorded cassette. Use the EDIT SHUTTLE ring on the VCR or the SHUTTLE ring on the Remote

- Press II PAUSE at the end of the unwanted scene during playback. The VCR enters playback pause mode.
- 2 Press COUNTER RESET to set the linear counter to "0H00M00S".
- 3 Turn the ring until the beginning of the unwanted scene appears on the screen. When you release the ring, the VCR enters playback pause mode. Use ◀ II FRAME II ▶ to rewind or advance the picture frame by frame for searching more. specific points.

4 Press ● REC. The VCR enters recording pause mode.

- 5 Select a new program for re-recording. Select the channel_INDEX +/- or Select the channel or change the input by pressing CHANNEL_INDEX +/- or
- 6 Press II PAUSE when the scene to be recorded begins to appear on the screen. Recording begins.
- 7 Press STOP when the linear counter shows "0H00M00S"



The picture may be distorted a moment at the cut-out point (recording end point).

Overview of the Editing Functions

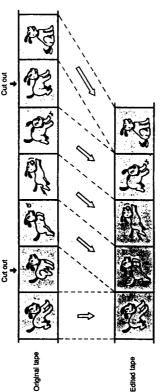
Using an additional VCR, you can record programs from one VCR to the other. The followings are the tape editing functions available on the VCR.

• To make a new tape with the entirely same contents
-> See Tape Dubbing on page 61.

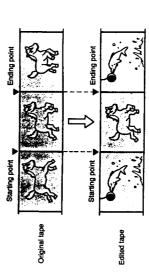


• To edit out unwanted scenes

-> See "Assemble Editing" on page 64.



 To insert another scene into a tape --> See "Insert Editing" on page 64.



• To edit tapes using the synchronized editing function

-> See "Synchronized Editing" on page 67.

You can also use the synchronized editing function to perform assemble editing and insert editing if your another VCR has a control L connector. Using this function controls both the playback VCR and the recording VCR simultaneously.

• To add narration and background music to previously recorded tape

-> See "Adding Audio or Narration (Audio Dubbing)" on page 77.

Synchronized Editing

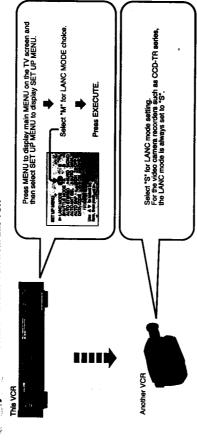
If your another VCR has control L or S connector, you can take advantage of a feature called "Synchronized Editing" that controls both VCRs (recording VCR and playback VCR), and releases the pause when the SYNCHRO EDIT START/ PAUSE button is pressed. To use this function, you must connect the control cable (LANC cable) in addition to the connections of the audio and video cables. There are two types of control cables: control L (REMOTE) cable and control S cable ecocding to the type of connectors of the VCRs.

After you have made connections on page 88, you must set the LANC MODE and SHUTTLE MODE. For details, see page 70.

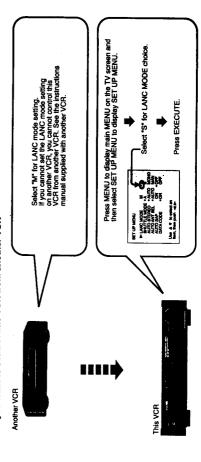
How to Decide the LANC MODE

When you perform synchronized editing with the control L jack, remember to set the LANC MODE as described below: This setting is very important, since it decides which VCR controls which. For details, refer to page 70.

When you want to control another VCR from this VCR



When you want to control this VCR from another VCR

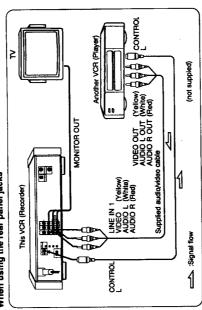


Synchronized Editing | 67

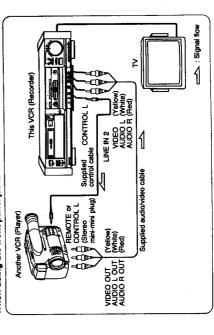
Synchronized Editing | 69

Connecting Video Equipment with the LANC connector

When using the rear panel Jacks



When using the front panel Jacks



lets you record the sound of the playback VCR on both channes of this VCR. Do not connect any plug to LINE IN 2 AUDIO R.

If your playback VCR is a monaural unit, connect the white plug to LINE IN 2 AUDIO L on this VCR. This

If another VCR has both the LANC connector and the CONTROL. S connector, use the LANC connector. Do not make the LANC and CONTROL. S connections

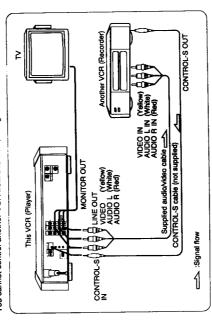
video camera recorder such as CCD-V801, you can take advantage of more precise synchronized editing function.

When connecting with a simultaneously.

About the **&** (LANC)
LANC stands for Local Application Control System.
The LANC connector is used for controlling the tape transport of video equipment and peripherals connected to it. This connector has the same function as the connectors indicated as CONTROL L or REMOTE.

Connecting Video Equipment with the CONTROL S connector

You can use this connection only on the rear panel. You cannot control another VCR from this VCR, using this connection.



When using the CONTROL S cable

Set the commander mode of this VCR and another video equipment to the same

If another video equipment has the synchronized function, use the SYNCHRO EDIT button on another equipment.
Comparing to the synchronized editing using the LANC connector, the synchronized editing using the CONTROL S connector only enables you to pause both VCRs and release the pause mode of both VCRs.

When connecting the VCRs, do not connect both LINE IN and LINE OUT jacks on your VCRs simultaneously. Doing so may cause a humming noise.

LANC MODE and SHUTTLE MODE Settings

After you have made the control L cable connection, you must perform the LANC MODE and SHUTTLE MODE setting. Use the SET UP MENU for both settings. For how to call up the SET UP MENU and set items, see page 28.

The followings are how to select each option in the SET UP MENU.

- 1 Press MENU to display the SET UP MENU.
- 2 Set LANC MODE.
- M: to control another VCR with this VCR.
- S: to control this VCR with another VCR or Editing Controller.
- 3 Set SHUTTLE MODE.
- A: used when another VCR does not have a reverse slow motion playback. (For example, CCD-TR series and EV-S550)

PART OF THE PART O

- B: used when another VCR has reverse slow motion playback. (For example, CCD-V701/V801 and EV-S900)
- 4 Press EXECUTE to return to the original screen.

Synchronized Assemble Editing

You can display both the pictures of the playback VCR and recording VCR alternately on the TV screen. This allows you to perform editing while previewing editing scenes.

Before you begin

- Press the TAPE SPEED button to select the tape speed (SP or LP).
- (When connected to the rear panel, select LINE IN 1. When connected to the front panel, select LINE IN 2). Press the INPUT SELECT buttons to select LINE IN 1 or LINE IN 2. L1 or L2 appears in the display window of the VCR.
 - Check the LANC MODE and SHUTTLE MODE settings (see page 70).
- Insert a recorded cassette into another VCR and insert a cassette for recording into this VCR.
- 2 Press SYNCHRO EDIT STANDBY

VCR (player) enters playback pause mode. The PLAYER indicator on the front panel of this VCR lights up and the picture of the This VCR (recorder) will enter recording pause mode, another

playback VCR is displayed on the screen.





Pfayer's counter

(reverse) or p> (forward) indicator lights up to show the direction.

Player's picture

3 Locate the starting point where you want to begin editing, using the EDIT SHUTTLE ring and the FRAME buttons.











Player's counter

One press on FRAME # ▶ advances one frame while one press on ◀ II reverses one frame.

page 70), a frame advance in the reverse direction, reverse slow motion playback, reverse normal speed and reverse double speed playback may not be possible. In this case, rewind the tape a little from the scene where you want to begin additing and search for the starting point by playing back the tape at normal speed or forward. For the VCR on which you have set SHUTTLE MODE "A" (see slow motion or forward frame advance.

(Continued)

Synchronized Editing | 71

以 When you have decided the starting point, switch to the "recorder side"

4 Press RECORDER.
The RECORDER indicator lights up and the picture of the recording VCR appears on the TV screen.









Recorder's counter

5 Locate the recording starting point with the EDIT SHUTTLE ring or the FRAME buttons on the VCR.

(reverse) or to (forward) indicator lights up to show the direction. Recorder's picture







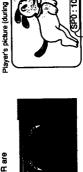


One press on FRAME II ▶ advances one frame while one press on ◀ III reverse one frame. L) If you want to select another playback picture after the recording starting point is determined, change over to the playback VCR by pressing the PLAYER button.

6 Press SYNCHRO EDIT START/PAUSE.
The pause mode of the playback VCR and the recording VCR are released.







SP0:10:18 Recorder's counter

want to stop recording. The playback VCR anter pause mode. On the VCR

7 Press SYNCHRO EDIT START/PAUSE at the scene where you

Player's counte

To edit another scene

To stop editing Press SYNCHRO EDIT STANDBY. Repeat steps 3 through 7.

- If you continue to press
 FRAME buttons, the VCR
 plays back the cassette at a
 speed of 1/30 or normal
 playback.
- While the RECORDER indicator is on, pressing the Indicator is on, pressing the RECORDER button a second time will stop the playback VCR and the recording VCR.
- While the PLAYER indicator
 is on, pressing the PLAYER
 button a second time will stop
 the playback VCR and the
 recording VCR.
 it takes about two or three
 seconds to reverse the
 direction in frame-by-frame
 picture.

Synchronized Insert Editing

You can display both the pictures of the playback VCR and recording VCR atternately on the TV screen. This allows you to perform editing while previewing editing scenes.

Player's tape

Before you begin

- Select the tape speed according to the tape speed of the recorded cassette.
- Press the INPUT SELECT button to select LINE IN 1 or LINE
 - (When connected to the rear panel, select LINE IN 1. When connected to the front panel, select LINE IN 2). L1 or L2 appears in the display window of the VCR. Check the LANC MODE and SHUTTLE MODE settings (see
- Ending point ® Starting point (6) Recorder's tape

Operation

1 Insert a recorded cassette into another VCR and a cassette for recording into this VCR.

This VCR (recorder) enters recording pause mode and the other VCR (player) enters playback pause.

The PLAYER indicator of this VCR lights up and the player's picture is displayed on the TV screen. 2 Press SYNCHRO EDIT STANDBY



emoreoun On the VCR

Switch to the recorder side.



Player's picture

Player's counter

3 Press RECORDER.

The RECORDER indicator lights up and the recorder's picture is displayed on the TV screen.

This VCR enters playback pause mode. On the VCR



Recorder's counter

4 Locate the editing end point (point (3)) with the EDIT SHUTTLE ring and the FRAME buttons on this VCR, and press COUNTER RESET.







to show the direction. Becomber a sint up

Recorder's counter

On the VCR

Rewind the tape to the editing starting point (point()) with the EDIT SHUTTLE ring on this VCR. If you want to locate more precisely, use the FRAME buttons.

<= (forward) indicator lights up to show the direction.
Descended in the direction.





Switch to the player side after you have located the editing starting point (point $(\!b\!)$).

6 Press PLAYER.
The PLAYER indicator lights up and the player's picture is displayed on the TV screen.

On the VCR



Player's picture

(Continued)

74 Synchronized Editing

Adding Audio or Narration | 77

→ (reverse) or ▷ (forward) indicator lights up to show the direction. 7 Locate the beginning of the scene to be inserted with the EDIT SHUTTLE ring and the FRAME buttons on this VCR.



One press on FRAME II P advances one frame while one press on 4 III reverses one frame.

For the VCR on which you have set SHUTTLE MODE "A" (see page 70), a frame advance in the reverse direction, reverse slow motion playback, reverse normal speed and reverse double speed playback may not be possible. In this case, rewind the tape a fittle from the scane where you want to begin editing and search for the starting point by playing back the tape at normal speed or forward slow motion or forward frame advance.

Press SYNCHRO EDIT START/PAUSE.

The pause mode of the player and the recorder is released. Both the player and the recorder enter pause mode immediately after the counter shown on the TV screen reads "0:00:00".



On the VCR



Recorder's counter

To edit another scene Repeat steps 3 through 8.

To stop editing Press SYNCHRO EDIT STANDBY.

To edit without the counter function
When you've located the beginning of the scene to be inserted, press
SYNCHRO EDIT/START PAUSE to release the pause.

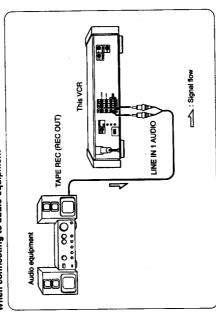
Adding Audio or Narration (Audio Dubbing)

You can additionally record narration or background music on the PCM track on the tape while the picture and sound previously recorded on the standard track are left unchanged.

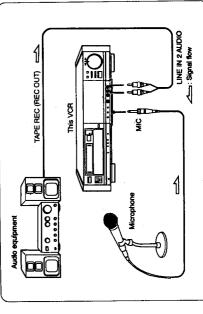
The source coming from the microphone is recorded in monaural. If you want to connect an audio equipment, use the audio in jacks. If you want to connect a microphone, use the MIC jack on the front.

Connections

When connecting to audio equipment



When connecting a microphone



Tips for audio dubbing

- When you want the sound to fade, side the REC LEVEL control from the 0 (zero) position to the normal position to the normal position gradually. To fade out, side the REC LEVEL control from the normal control from the position. (This only works for line input audio sources.) position to the 0 (zero)
 - panel or LINE IN 2 AUDIO jacks on the front panel and the MIC jacks can be mixed. The sound from the LINE IN 1 AUDIO jacks on the rear

aiready recorded on the standard track and the sound to be newly added on the PCM track are balanced. Adjust the REC REVEL. control so that the sound

Technical Information

Hi B (High Eight) Video System

Characteristics of Hi8 System

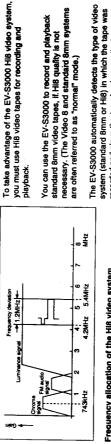
the FM carrier frequency range, in the river service of the furniance signal is shifted up to 5.7-7.7 MHz. This is higher than the 4.2-5.4 MHz range of the standard 8mm video system. Consequently, the horizontal resolution is FM carrier frequency range. In the Hi8 video system, Super high quality picture
 The information capacity is a key element for picture improvement. It can be increased by shifting up the
 improved to 400 lines.

The His video system uses the same tape speed as the standard 8mm video system. An E6-120 (or P6-120) allows four hours of recording and playback in LP mode.

Recording and Playback in the

Hi8 Video System

Frequency allocation of the standard 8mm video system



Frequency allocation of the Hi8 video system

To dub sounds from the tuner of this VCR Press the INPUT SELECT button to select the "TUNER" indication. The other

operations are the same as the above.

recorded and plays the tape back accordingly.	To make the most out of the Hi8 video system, select	rio AUTO on the PLOTOTE AUDUST ment. In this way, the EV-S3000 records in the HIB video system (see "Selecting Recording System" on page 54).	Compatibility with conventional	Video recorder decks
			MHz 9	
stem	Frequency deviation ←-2.0MHz →		7 8 Z 7.7MHz	
ne Hi8 video sy	Frequency deviation	<u> </u>	4 5 6 5.7MHz	
Frequency allocation of the Hi8 video system	1	Oroma Signal FM audio	743kHz 3	
Freque	A Gain		+	

Use of high grade tape to match the His video

The 8mm video system employs a metal powder tape. This means the video recorder is capable of recording a large amount of information and enhances picture

quality. The Hi8 video system was developed utilizing the advantages of the 8mm video system. (See the diagrams below.) The main characteristics of the Hi8 video system are as follows:

Press the INPUT SELECT buttons to select LINE IN 1 or LINE IN 2. (When connected to the rear panel, select LINE IN 1. When connected to the front

Before you begin

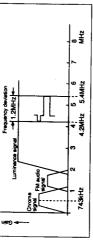
To monitor the audio-dubbed sound, set the AUDIO MONITOR selector to PCM. During audio dubbing, the sound recorded on the standard track is not heard.

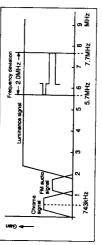
Adjust the REC LEVEL control to an appropriate level while observing the peak

level meter.

L1 or L2 appears in the display window of the VCR.

panel, select LINE IN 2).





Tapes recorded using the Hi8 video system cannot be played back on conventional 8mm video equipment (standard 8mm video system).

for the Hi8 video system, covering a wide frequency range, to achieve a high-quality video signal for recording/playback

S-VIDEO connector can transmit and receive the video

To avoid this picture quality loss, an

equipment is called a composite video signal, in which luminance (Y) signal and chroma (C) signal are mixed

TV set and video equipment or among several video

In this system the composite video signal is liable to produce interference, resulting in picture quality loss.

Conventionally, the video signal exchanged between

S-VIDEO (separate luminance/chroma signal)

Input/output connectors

sharpness is enhanced to such an extent that hair and fine stripes are clearly visible. The S-VIDEO connector

and color blur in the picture are minimized and

chroma signal. With the separated video signal flicker

signal separated into the luminance signal and the

also assures an excellent editing quality with minimum

picture quality loss. Tape speed

Metal tape for the Hi8 video system is ideal because it has large magnetic energy which permits high-density recording. The Hi8 VCR uses such high-grade tapes

The picture may shake or the color may become black and white depending on your TV.

2 Play back the cassette and determine the point where you want to begin audio

dubbing. Press III PAUSE to pause playback

3 Press AUDIO DUB.

Operation

1 Insert a cassette.

4 Play back the audio source and adjust the REC LEVEL control.

5 Press II PAUSE to release pause mode. The picture is played back and the sound is recorded.

The dubbed sound cannot be

played back on a VCR

To stop audio dubbing

Press STOF

The pre-recorded sound on the PCM track will be erased

without PCM recording or playback functions.

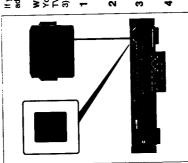
black streaks appear at the bottom of the screen and in During PCM audio dubbing, Do not use a plug-in power

microphone. by dubbing.

These streaks will not be recorded on the tape. the center of the screen.

General Setup Information

Setting the RF UNIT



If you connect a TV or color monitor equipped with AV input jacks, skip this adjustment.

Why this settling is necessary:
You must set the RF UNIT selector at the rear of the VCR properly so that your
TV can receive the correct signal from the VCR. Set the selector to 3 CH (Ch
3) or 4 CH (Ch 4), whichever is not active in your area.

1 Set the RF UNIT at the rear of the VCR to 3 CH or 4 CH, whichever is not used in your area.

2 Press POWER.
The power indicator lights up on the front panel.

3 Press TV/VTR. The VTR indicator lights up in the display window.

4 Check that the TUNER indicator appears in the display window, then select an active channel in your area by pressing CHANNEL/INDEX +/--

5 Turn on your TV and set it to the channel you selected in step 1. Your TV is now tuned to the VCR. Whenever you use the VCR, set the TV to the preselected channel.

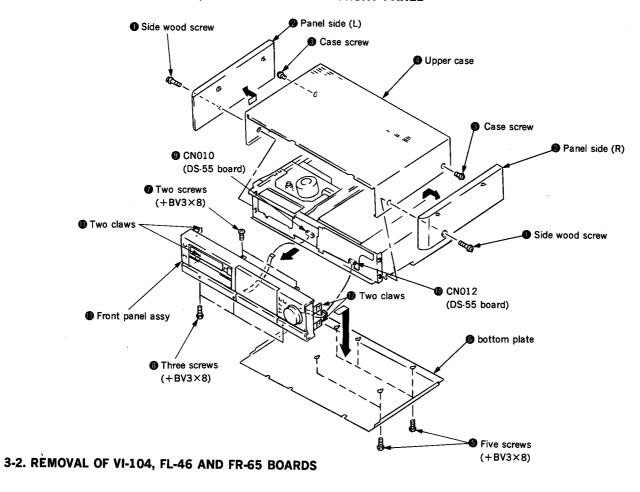
Note: For details on adjusting TV channels, see your TV instruction manual.

On-Screen Help Messages

Please put in a cassette	The tape is rewound
Please stop the tape	This function cannot be changed
Please push INPUT SELECT	No timer recording has been set
Please transmit the data to the VCR again	Please connect PLAYBACK VCR with LANC cable, then set the PLAYBACK VCR LANC MODE to "S"
Please set the clock	There is no cassette in the PLAYBACK VCR. Please put in a cassette
Timer program is full	Please stop the PLAYBACK VCR
Tab on the cassette is locked	The tape in the PLAYBACK VCR is at the end
Please rewind or put in a new cassette	Please turn off the power switch then turn on again
No timer recording has been set	It is not possible to execute SYNCHRO EDIT
VCR is recording	Please check NORMAL/CATV

SECTION 3 DISASSEMBLY

3-1. REMOVAL OF UPPER CASE, BOTTOM PLATE AND FRONT PANEL



Two screws (+BV3×8) Open the VI-104 board in the direction of arrow (A). CN103 Two screws CN604 (A) $(+BV3\times8)$ ∕CN603 Open the PC-56 board in FL-46 board CN001 the direction of arrow B. CN002 CN003 (PS-278 board) **®** CN004 1 Two screws CN105 (+BV3×8) FR-65 board FJ-12 board CN104 Two screws (+BV3×8) MC-79 board

⊕ Screw
 (+BV3×8)

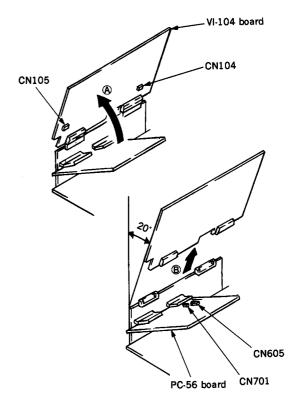
(+BV3×8)

3-3. REMOVAL OF VI-104 AND PC-56 BOARDS 3-3-1. Removal of VI-104 Board

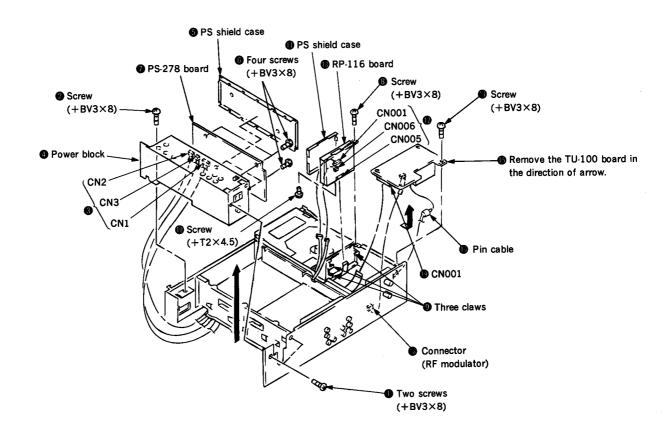
- 1) Open the VI-104 board in the direction of arrow (A).
- 2) Remove the connector (CN104 and CN105).
- 3) Open the VI-104 board for 20° angle.
- 4) Remove the VI-104 board in the direction of arrow ®.

3-3-2. Removal of PC-56 Board

- 1) Remove the connector (CN605 and CN701).
- 2) Open the PC-56 board for 20° angle.
- 3) Remove the PC-56 board in the direction of arrow ®.

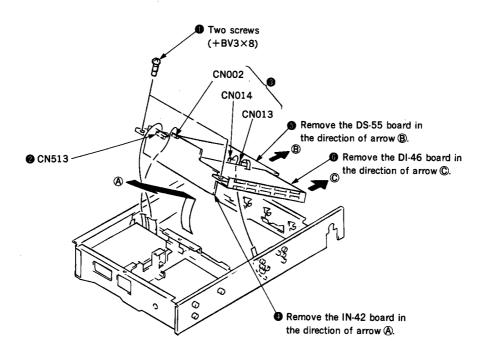


3-4. REMOVAL OF PS-278, RP-116 AND TU-100 BOARDS

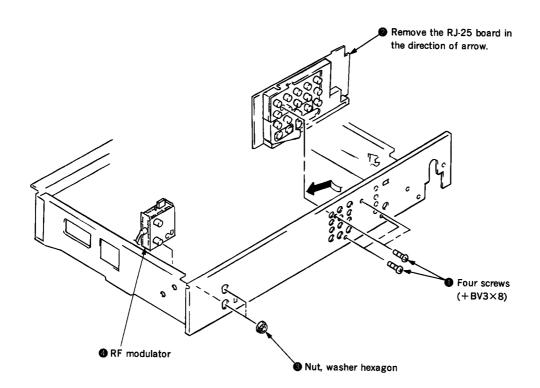


3-5. REMOVAL OF IN-42, DS-55 AND DI-46 BOARDS

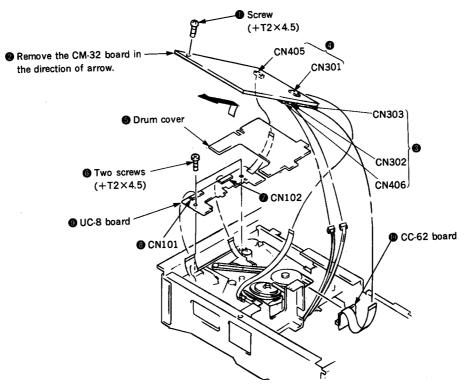
The set Positioned upside-down.



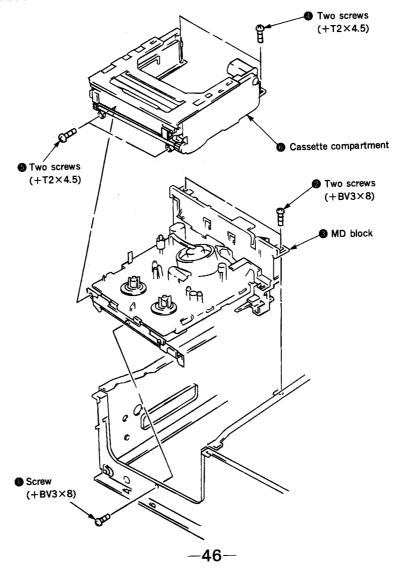
3-6. REMOVAL OF RJ-25 BOARD AND RF MODULATOR



3-7. REMOVAL OF CM-32, UC-8 AND CC-62 BOARDS

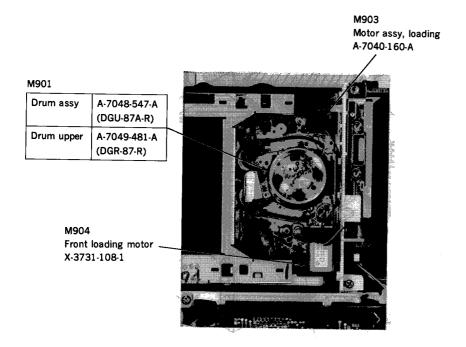


3-8. REMOVAL OF MD BLOCK AND CASSETTE COMPARTMENT ASSEMBLY

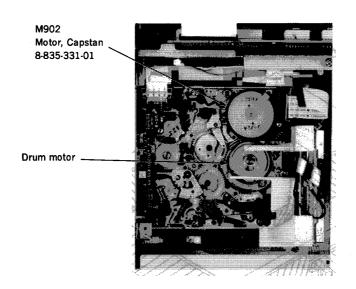


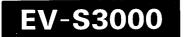
3-9. INTERNAL VIEWS

-Upper side-



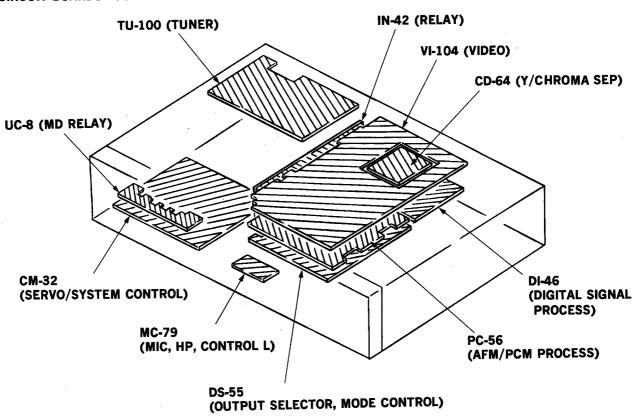
-Lower side-

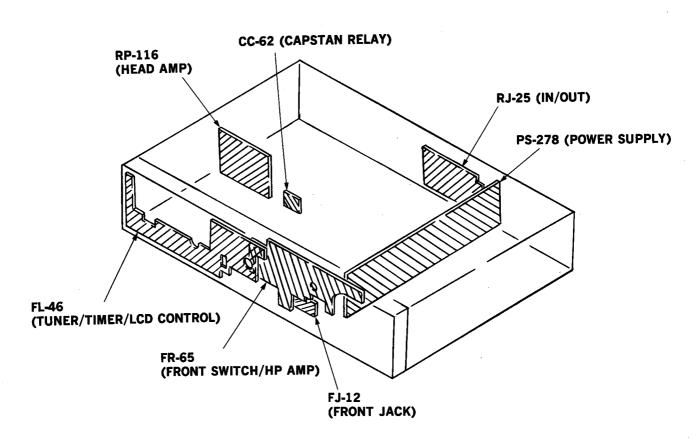




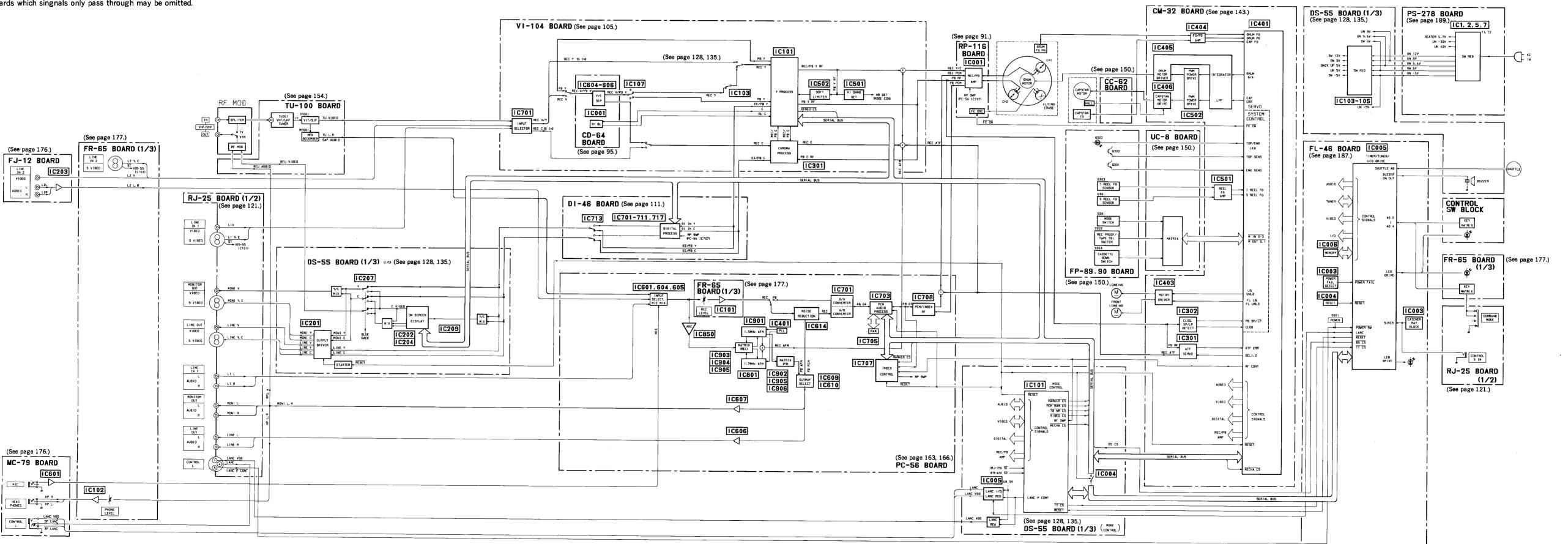
SECTION 4 DIAGRAMS

4-1. CIRCUIT BOARDS LOCATION



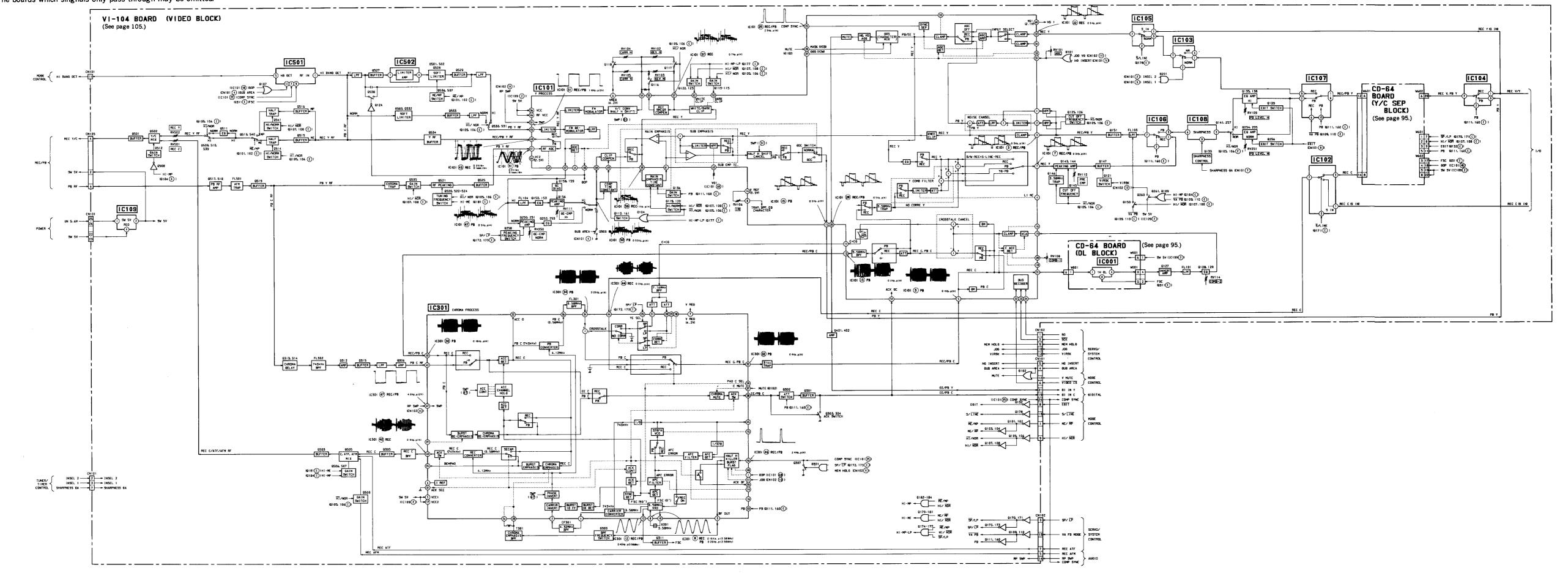


4-2. OVERALL BLOCK DIAGRAM



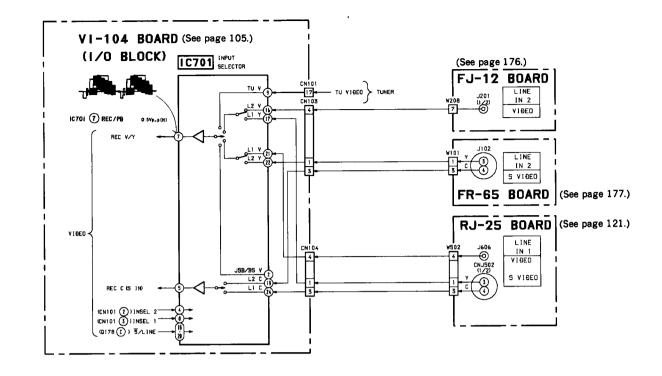
4-3. VIDEO BLOCK DIAGRAM

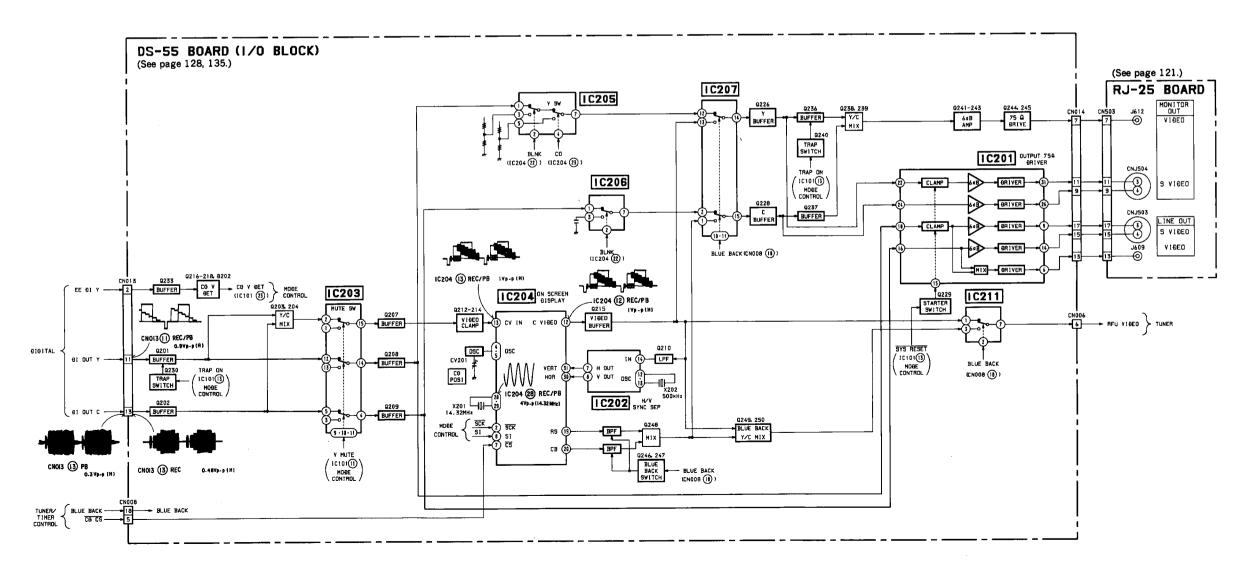
• The boards which singnals only pass through may be omitted.



-55-

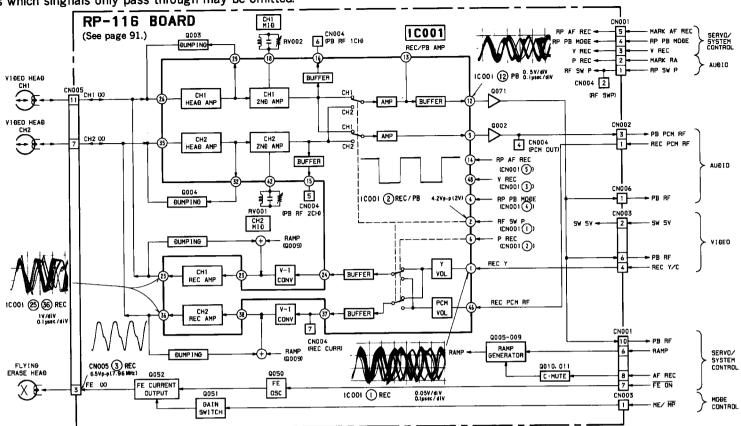
4-4. IN/OUT BLOCK DIAGRAM



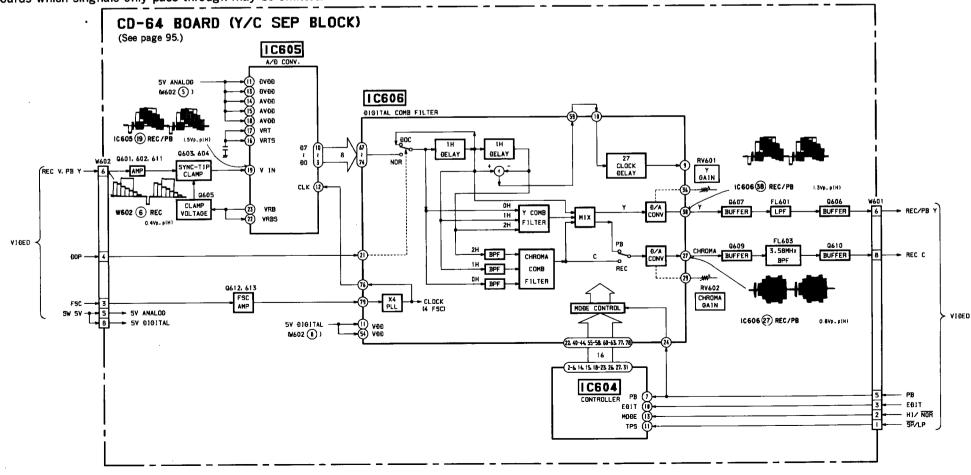


4-5. REC/PB AMP BLOCK DIAGRAM

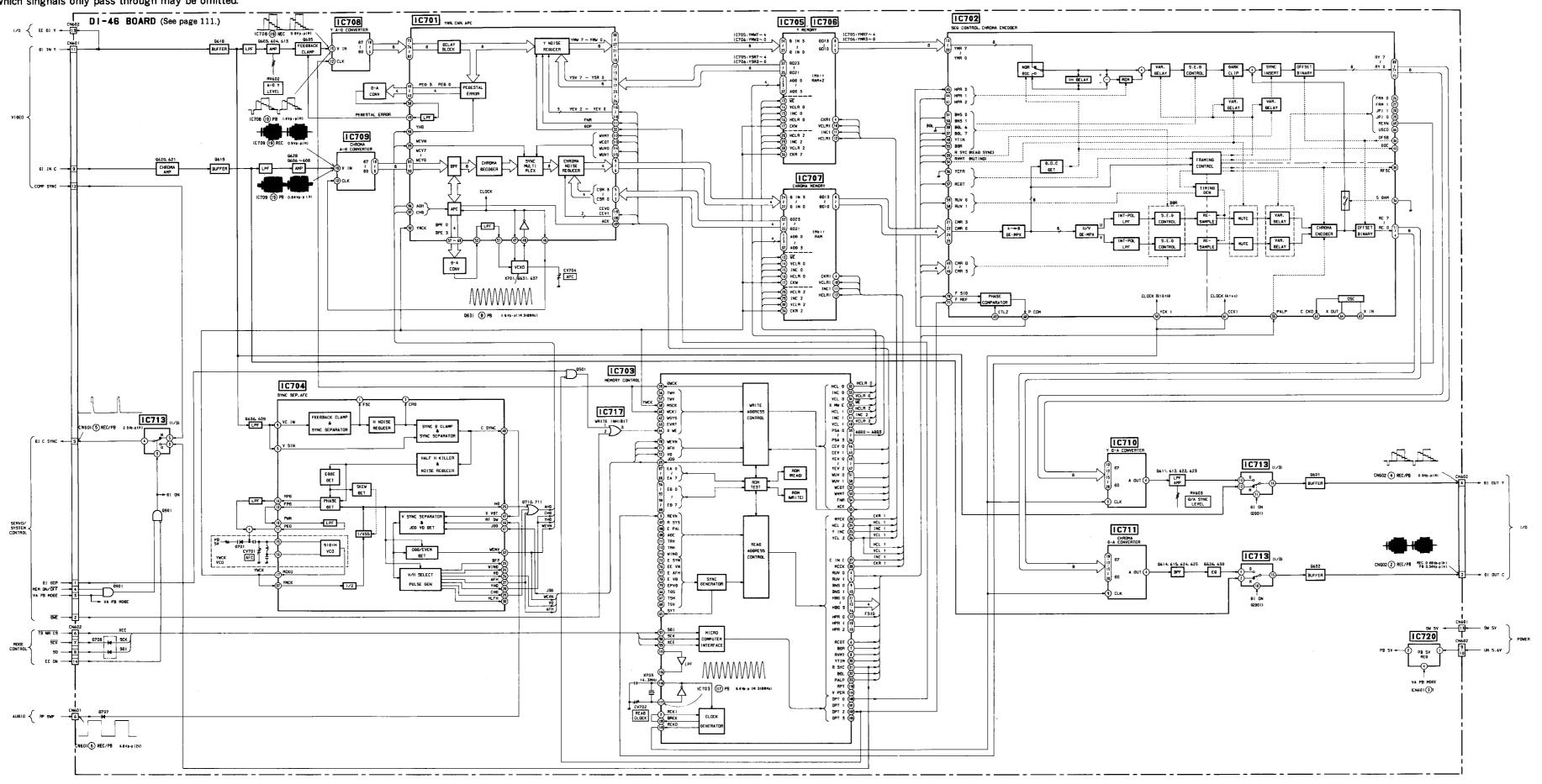
• The boards which singnals only pass through may be omitted.



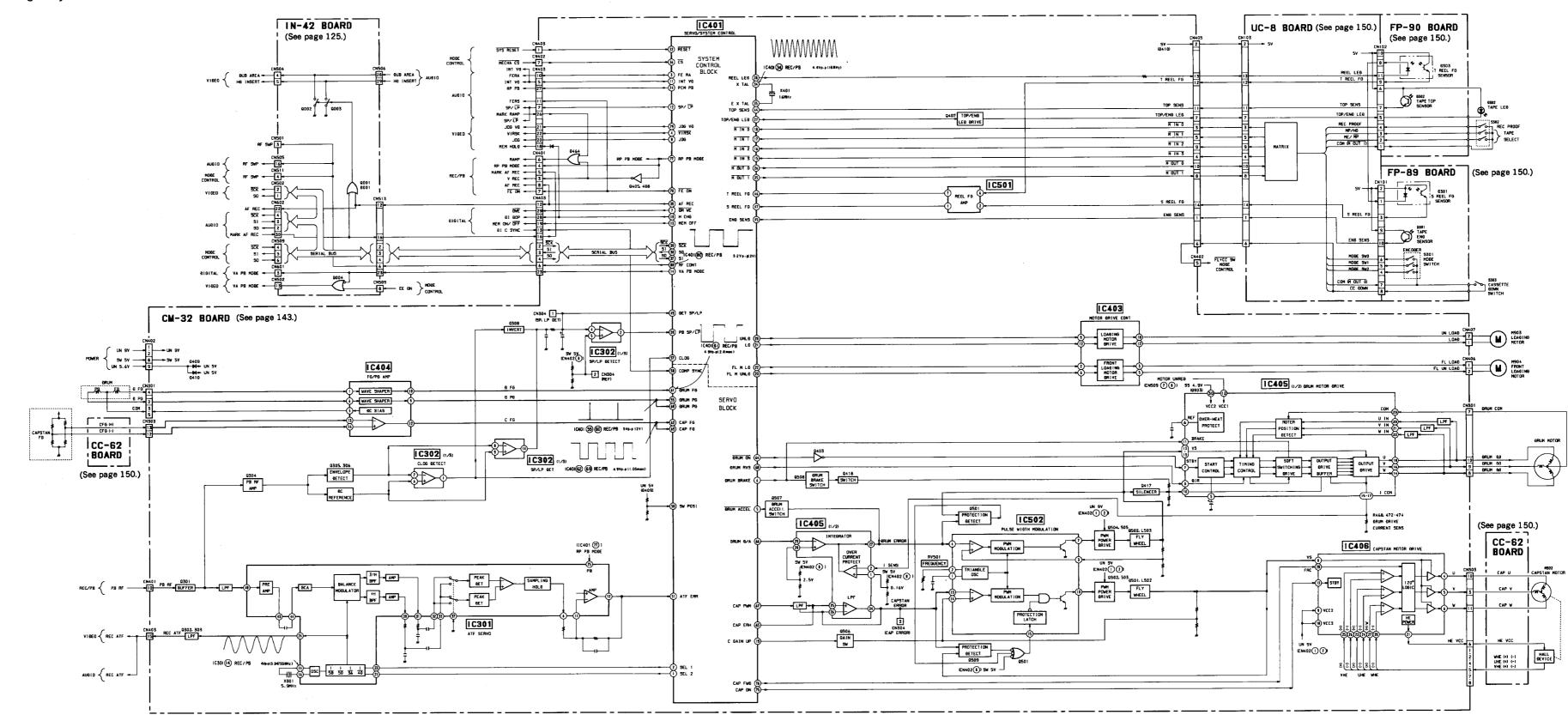
4-6. Y/C SEP BLOCK DIAGRAM



4-7. DIGITAL BLOCK DIAGRAM



4-8. SERVO SYSTEM CONTROL BLOCK DIAGRAM



4-9. PIN DESCRIPTION OF SERVO AND SYSTEM CONTROL MICROPROCESSOR (CXP80116: IC401 on CM-32 BOARD)

Pin No.	Signal Name	1/0	Function							
1	SEL 2	0								
2	SEL 1	0	ATF REF Select signal							
3	FERA	0	Flying Erase REC AREA signal							
4	VI RSK	0	his signal masks character broadcast intervals during recording.							
5	DRUM ACCEL	0	Drum FH Acceleration pulse							
6	DRUM BRAKE	0	Drum FH Deceleration pulse							
$\frac{3}{7}$	DM WE	0	This signal allows memory control during SLOW/STILL mode.							
8	JOG	o	This is set "High" when a speed changed playback is entered.							
9	PAL V	0	Not used							
10	H CHG MECHA	0	Head Changeover signal							
11	INT VD	0	Internal VD signal							
12	SP/LP	0	SPEED Mode signal							
13	MEMORY OFF	0	PHASE II MEMORY ON/OFF signal							
14	VA PB MODE	0	VIDEO and AUDIO REC/PB Changeover signal							
15	M IN 3	I								
16	M IN 2	I								
17	M IN 1	I	KEY MATRIX input							
18	M IN 0	I								
19	C GAIN UP	0	This signal allows CAPSTAN GAIN UP during RF/REW mode.							
20	UN LD	0								
21	LD	0	LOADING MOTOR Control signal							
22	FL M LD	0								
23	FL M UNLD	0	FRONT LOADING MOTOR Control signal							
24	PCB PB	0	PCM Playback Control signal							
25	M OUT 1	0								
26	M OUT 0	10	KEY MATRIX output							
27	TOP/END LED	0	TOP/END Sensor LED Control signal							
28	REEL LED	10	REEL LED Current signal							
29	PCM REC INH	0	PCM REC ON/OFF signal							
30	AF REC	0	This is set "High" when AF recording is entered.							
31	MP	+ -	Not used							
32	RESET	I	Reset signal input							
33	V _{ss}		GND							
34	XTAL	0								
35	EXTAL	I	16MHz Clock Oscillation							
36	SYSCON CS	I	Serial Communication Chip Select signal from Mode control Microprocessor (IC101 on DS-55 board)							
37	SYSCON SI	I	Serial Data input							
38	SYSCOM SO	0	Serial Data output							
39	SYSCON SCK	I	Serial Communication Clock input							
40										
41	E/\overline{L}		Not word							
42			Not used							
<u> </u>	MIN4									

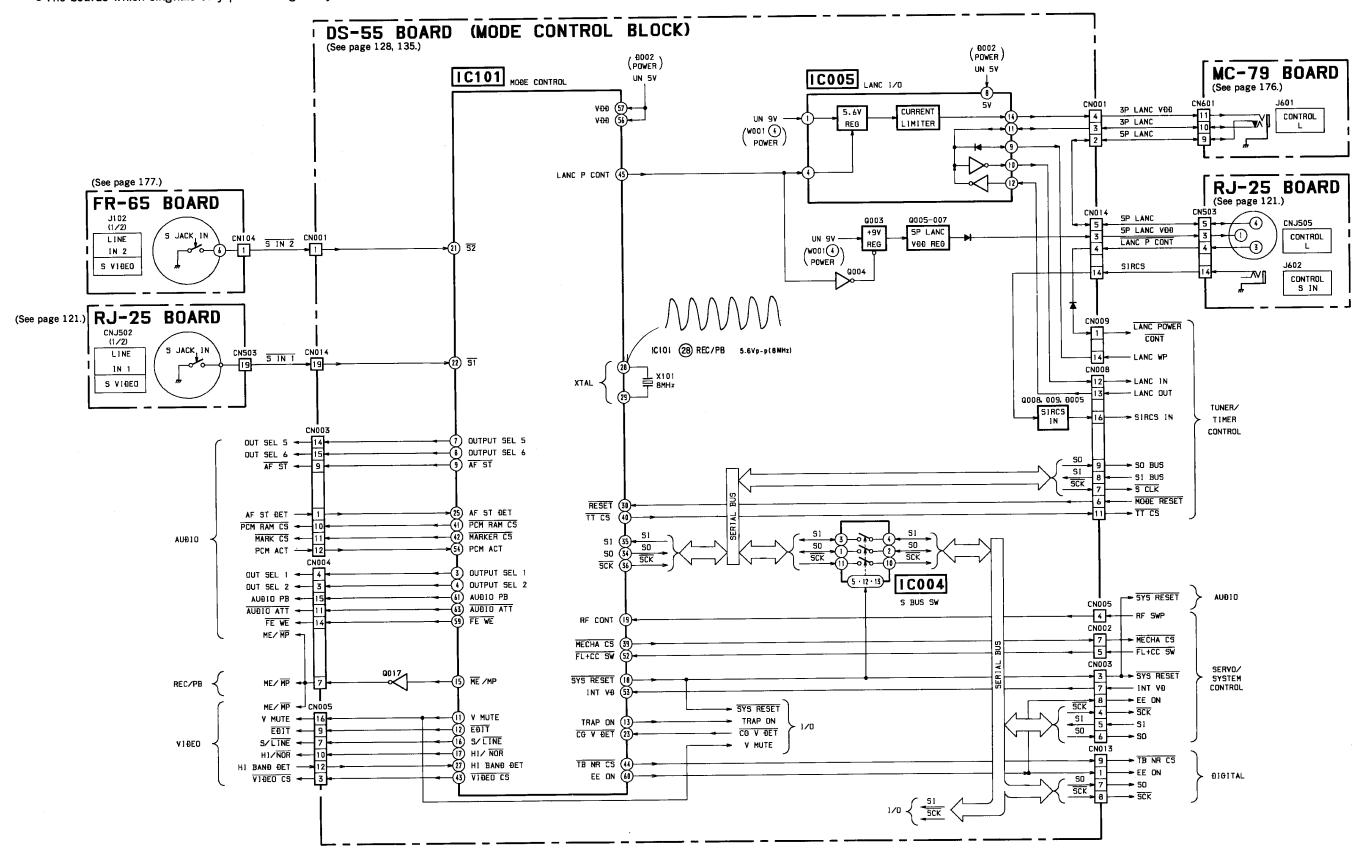
Table 4-1-1.

Pin No.	Signal Name	1/0	Function						
44	TAPE TOP SENS	I	CAPE TOP Sensing A/D input						
45	TAPE END SENS	I	APE END Sensing A/D input						
46	T REEL FG	I	T REEL FG A/D input						
47	S REEL FG	I	S REEL FG A/D input						
48	BATT DOWN		Not used						
49	DET SP/LP	0	SP/LP Detection output.						
50	SW POSI ADJ	I	SW POSI Temperature Correction A/D input						
51	ATF ERROR	I	ATF ERROR A/D input						
52	A V _{ss}		ND for A/D						
53	A V _{REF}		ference Voltage for A/D						
54	A V _{DD}		Power for A/D						
55	DRUM PG	I	DRUM PG input						
56	DRUM FG	I	DRUM FG input						
57	CLOG	I	CLOG Detection input						
58	COMP SYNC	I	Composite SYNC input						
59	PB SP/LP	I	FF/REW CUE/REV SP/LP Discrimination input						
60	DRUM PG	I	RUM PG input						
61	DRUM FG	I	DRUM FG input						
62	CAP FG	I	CAP FG input						
63			N.C.						
64	DRUM ON	0	DRUM DRIVER ON/OFF signal						
65	CAP ERH	0	CAPSTAN ERROR HIGH output						
66	DRUM ERR	0	ORUM 3 STAGE ERROR output						
67	CAP PWH	0	CAPSTAN PWH ERROR output						
68	DRUM RVS	0	DRUM Direction Changeover signal						
69	CAP FG	I	CAPSTAN FG input for HMS						
70			Not used						
71	NMI		Not used						
72	V _{DD}		+5V						
73	V _{ss}		GND						
74			Not used						
75	CAP ON	0	CAPSTAN DRIVER ON/OFF signal						
76	CAP FWD	0	CAPSTAN Direction Changeover signal						
77	RP PB MODE	0	REC/PB Changeover signal						
78	FE ON	0	Flying Erase Oscillation ON/OFF signal						
79	JOG VD	0	This is VD signal to be inserted into VIDEO signal when a changed speed playback is entered.						
80	REF CONT	0	REF CONT signal						

Table 4-1-2.

EV-S3000

4-10. MODE CONTROL BLOCK DIAGRAM



4-11-1. PIN DESCRIPTION OF MODE CONTROL MICROPROCESSOR (CXP80316: IC101 on DS-55 BOARD)

Pin No.	Signal Name	1/0	Function
1	BLUE BACK	-, -	
2	NR AGC		\ \N.C.
3	OUTPUT SEL 1	0	Audio Monitor Select signal
4	OUTPUT SEL 2	0	(Refer to Sections 4-10-2. and 4-10-3.)
5	OUTPUT SEL 3	0	
6	OUTPUT SEL 4	0	N.C.
7	OUTPUT SEL 5	0	Audio Monitor Select signal
8	OUTPUT SEL 6	0	(Refer to Sections 4-10-2 and 4-10-3.)
9	AF ST	0	This is set "Low" when STEREO input is provided and set "Low" when AFM is placed in STEREO in playback mode.
10	BS V MUTE	0	N.C.
11	V MUTE	0	This is set "High" when VIDEO MUTE signal is placed in MUTE.
12	EDIT	0	This is set "Low" when EDIT signal is placed in EDIT ON.
13	TRAP ON	0	This is set "High" when playback is entered. This is used to remove residual chroma in playback mode.
14	MP HG/MP	0	This is set "High" when ME TAPE is used.
15	ME/MP	0	This is set "Low" when ME TAPE is used.
16	S/ LINE	0	This is set "High" when S Pin input is provided. This is switched depending on the input state.
17	HI/NOR	0	This is set "High" when HI BAND (Hi8) mode is entered.
18	SYS RESET	0	System Reset output
19	RF CONT	I	RF SW PULSE input
20	<u>\$3</u>		Not used
21	S2	I	This is set "Low" when LINE 2 S Pin input is provided.
22	S1	I	This is set "Low" when LINE 1 S Pin input is provided.
23	CG V DET	I	CG V Detection signal input (Active "Low")
24	AF BIL DET	I	Not used
25	AF ST DET	I	This is set "High" when AFM is placed in STEREO in playback mode.
26	V _{ss}		GND
27	HI BAND DET	I	This is set "High" when HI BAND (Hi8) mode is entered.
28	XTAL	0	OMIL Class Oscillation
29	EXTAL	I	8MHz Clock Oscillation
30	RESET	I	Reset signal input from T/T Microprocessor (IC005 on FL-46 board)
31			
32			\ N.C.
33			
34	SO	0	Serial Data output
35	SI	I	Serial Data input
36	SCK	0	Serial Communication Clock output
37			N.C.
38			
39	MECHA CS	0	Serial Communication Chip Select output to S/S Microprocessor (IC401 on CM-32 board)
40	TT CS	0	Serial Communication Chip Select signal output to T/T Microprocessor
41	PCM RAM CS	0	Serial Communication Chip Select signal output to PCM Process IC (IC703 on PC-56 board)
42	MARKER CS	0	Serial Communication Chip Select signal output to INDEX IC (IC707 on PC-56 board)
43	VIDEO CS	0	Serial Communication Chip Select signal output to Y Process IC (IC101 on VI-104 board)

Table 4-2-1.

Signal Name I/O Function Serial Communication Chip Select signal output to Digital Memory Control IC (IC703 on TB NR CS 45 LANC P CONT O LANC POWER Control signal output N.C. 47 TEST D Not used TEST C TEST B I Used to switch between JAPAN and USA (CND). This is set "High" to switch to JAPAN. I Test pin used for Board Adjustment. This is set "Low" to enter the test mode. TEST A 52 FL+CC SW I This is set "Low" when Cassette Down switch is turned ON. 53 INT VD I VD signal input 54 PCM ACT I PCM Presence Discrimination signal 55 56 V_{DD} +5V power 57 V_{DD} +5V power 58 V_{ss} FE WE O This is set "High" when INDEX ERASE is entered (SP is set). EE ON 60 O E-E Screen/PB Screen Changeover signal 61 AUDIO PB O This is set "High" when AUDIO playback is entered. 62 AF BIL 63 AUDIO ATT O Used to attenuate audio during AF recording. This is set "High" when audio is attenuated. 64 C+R O This is set "High" when CUE/REV mode is entered.

Table 4-2-2.

4-11-2. AUIDO MONITOR SELECT

EE/PB	EE ST	AUDIO MON SW	PCM EXIST	PCM ID	AFM ID	PB ST/BIL	MONITOR OUT	DISPLAY	OUTPUT PATTERN Refer to Section 4-11-3.
PB		AUTO	Yes	STEREO			STEREO	STEREO	1
							L	L	3
ŀ							R	R	4
-				MONO			MONO	no	1
			No		STEREO	STEREO	STEREO	STEREO	5
							L	L	6
							R	R	7
					MONO		MONO	no	6
-		MIX	Yes	STEREO	STEREO	STEREO	STEREO	STEREO	2
							L	L	8
							R	R	9
					MONO		STEREO	STEREO	10
							L	L	8
							R	R	11
				MONO	STEREO				2
					MONO		_		10
			No		STEREO	STEREO	STEREO	STEREO	5
							L	L	6
							R	R	7
					MONO		MONO	no	6
		STD			STEREO	STEREO	STEREO	STEREO	5
							L	L	6
							R	R	7
					MONO		MONO	no	6
EE	MONO	AUTO					MONO	no	1
		MIX					MONO	no	2 Note1
		STD					MONO	no	5
	STEREO	AUTO					STEREO	STEREO	1
		MIX					STEREO	STEREO	2 Note1
		STD		1			STEREO	STEREO	5

Table 4-3.

Note 1) OUTPUT PATTERN is set to 10 when SAP is received.

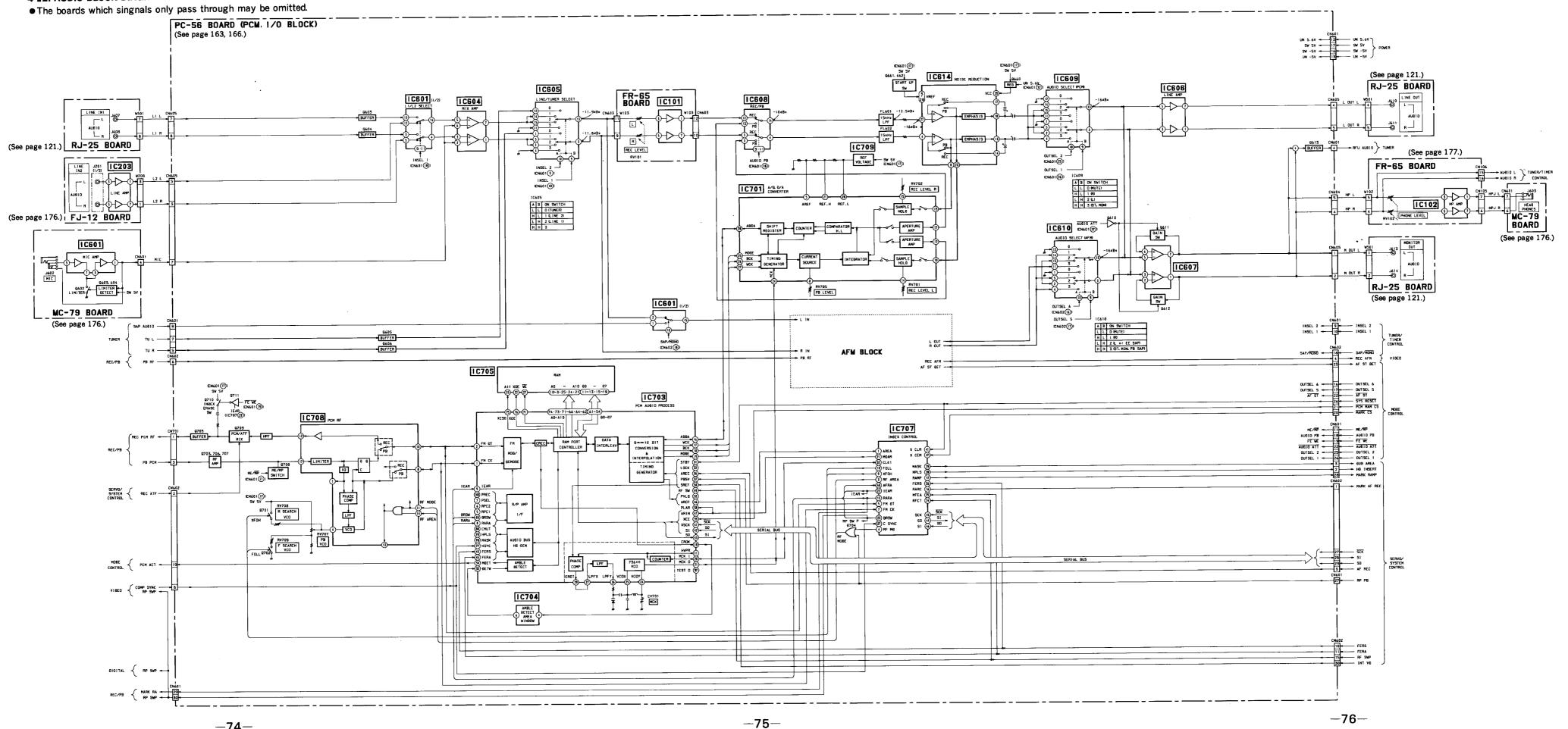
4-11-3. OUTPUT PATTERN

OUTPUT PATTERN	1	2	3	4	5	6	7	8	9	10	11
OUTSEL 1	Н	Н	Н	L	L	L	L	Н	L	Н	L
OUTSEL 2	Н	Н	L	Н	L	L	L	L	Н	Н	Н
OUTSEL 3	Н	Н	Н	L	L	L	L	Н	L	Н	L
OUTSEL 4	Н	Н	L	Н	L	L	L	L	Н	Н	Н
OUTSEL 5	L	Н	L	L	Н	Н	L	Н	L	Н	Н
OUTSEL 6	L	Н	L	L	H	L	Н	L	Н	L	L

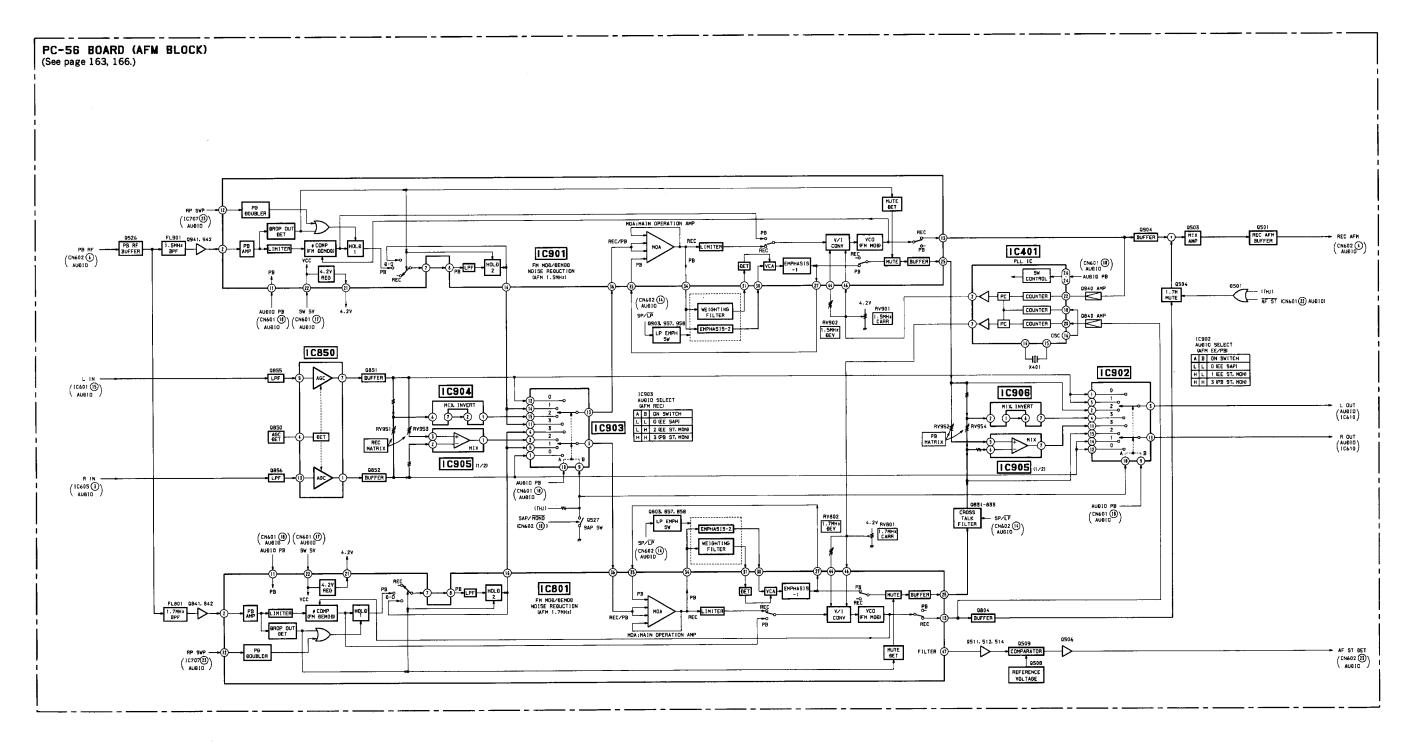
Table 4-4.

4-12. AUDIO BLOCK DIAGRAM

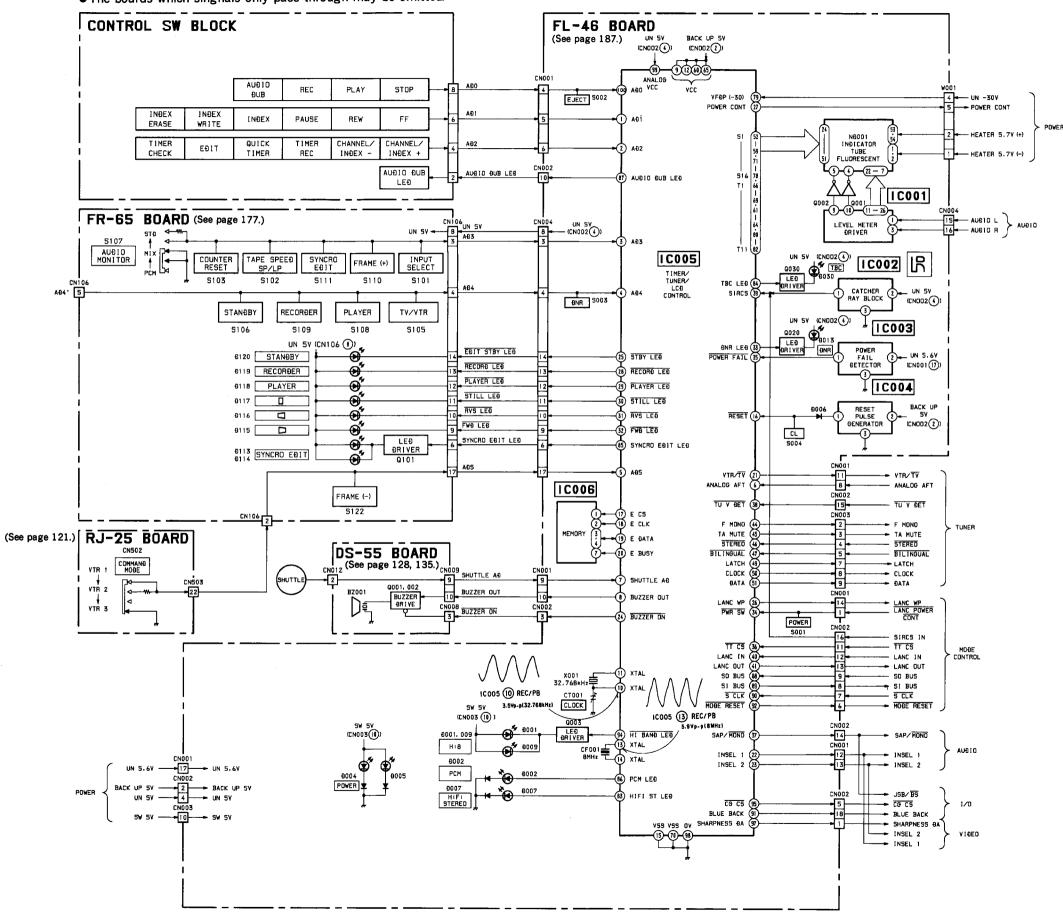
-74-



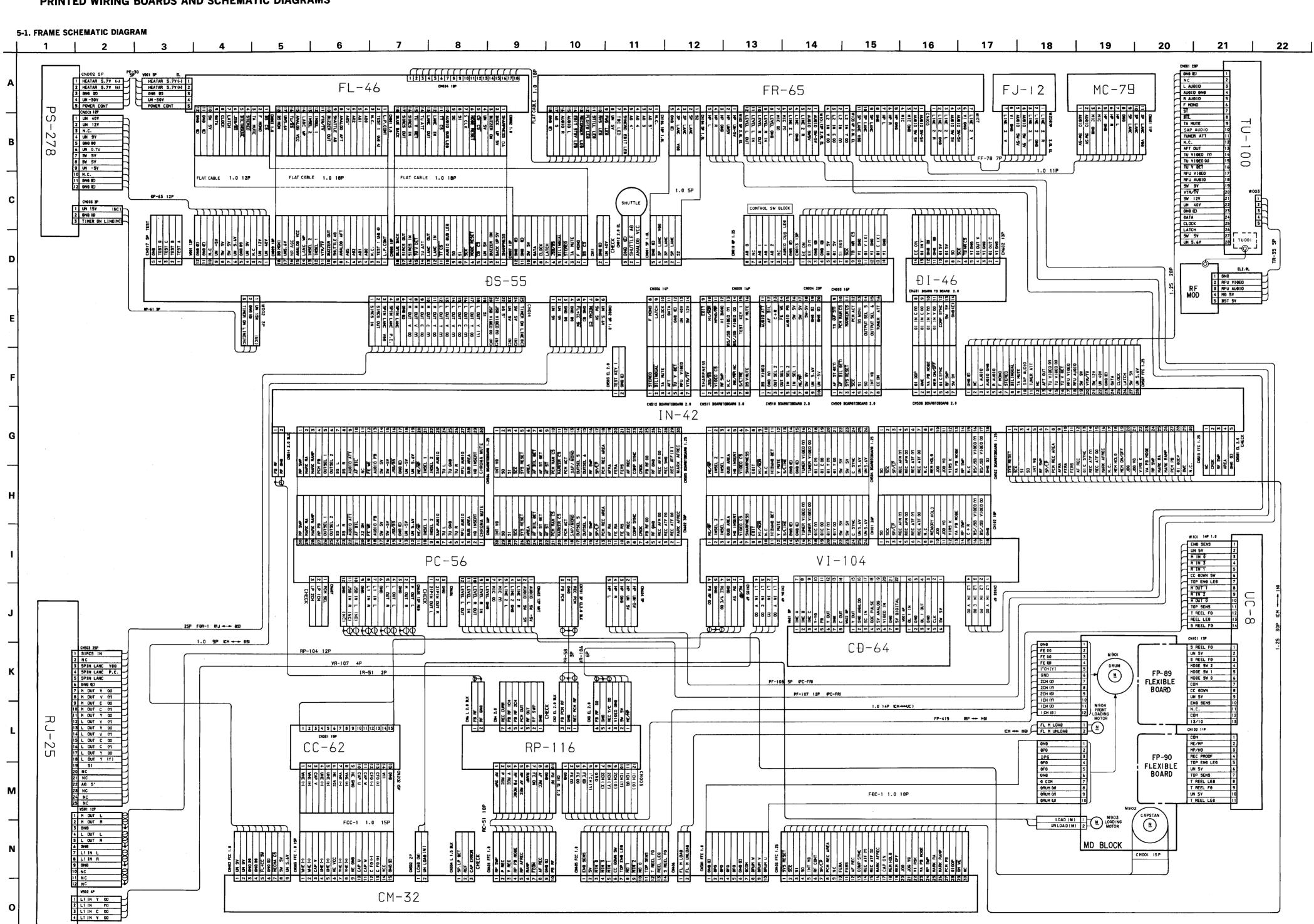
4-13. AFM BLOCK DIAGRAM



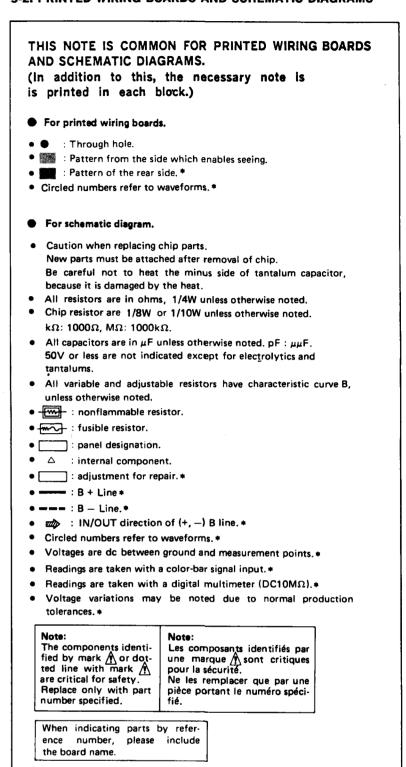
4-14. TUNER/TIMER CONTROL BLOCK DIAGRAM



SECTION 5
PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS



5-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS



*: indicated by the color red.

6 | 7 | 8 | 9 | 10 | 11 |

CD-64 (Y/CHROMA SEP) SCHEMATIC DIAGRAM -Ref. No. CD-64 BOARD: 6000 series-

CD-64 BOARD N. C. T. C. (See page 107.) BPF COMB IC 605 (19) REC / PB 1.5 Vp. p(H) no mark:REC/PB made (SP)
():REC made (SP)
< >:PB made (SP)
*:Impossible to measure the voltage of the marked point. IC606(38) REC/PB 1.3Vp_p(H)

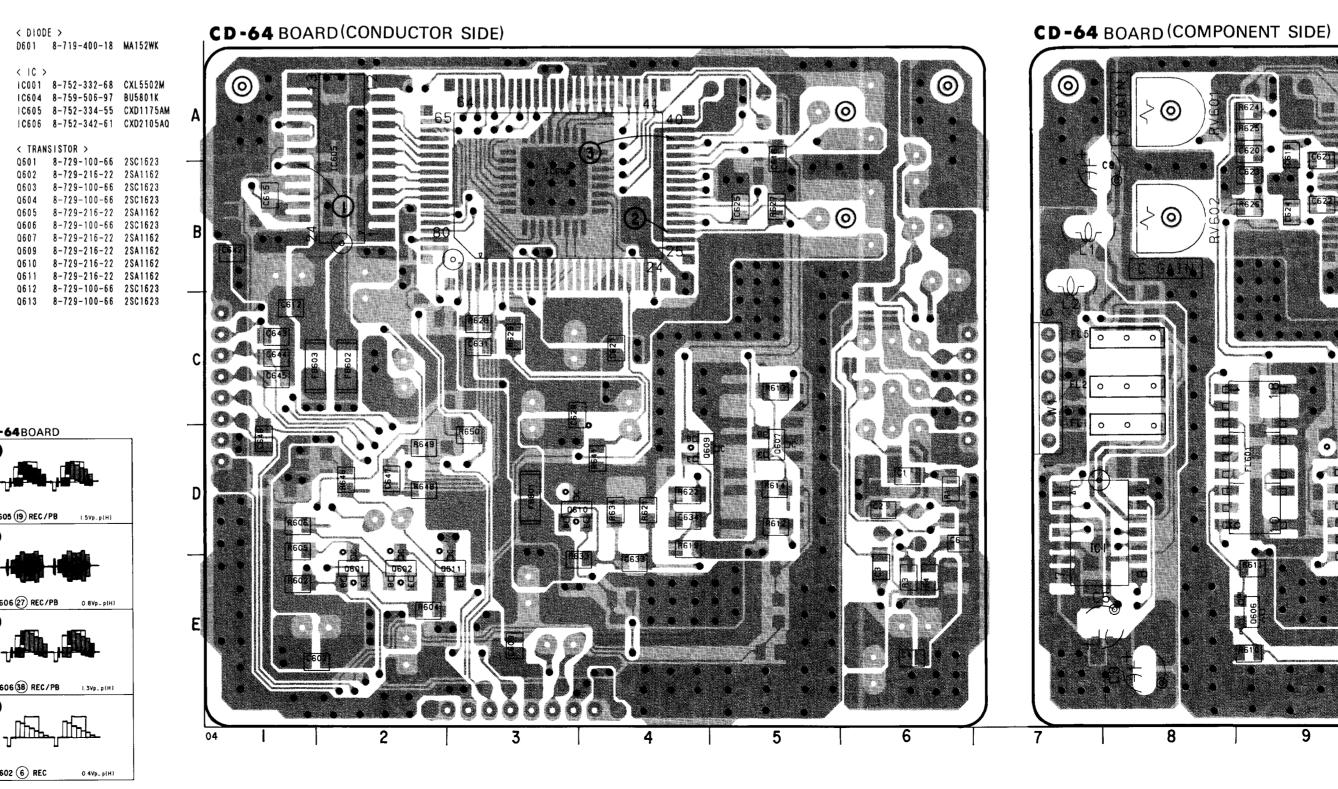
CD-64 (Y/CHROMA SEP) PRINTED WIRING BOARD

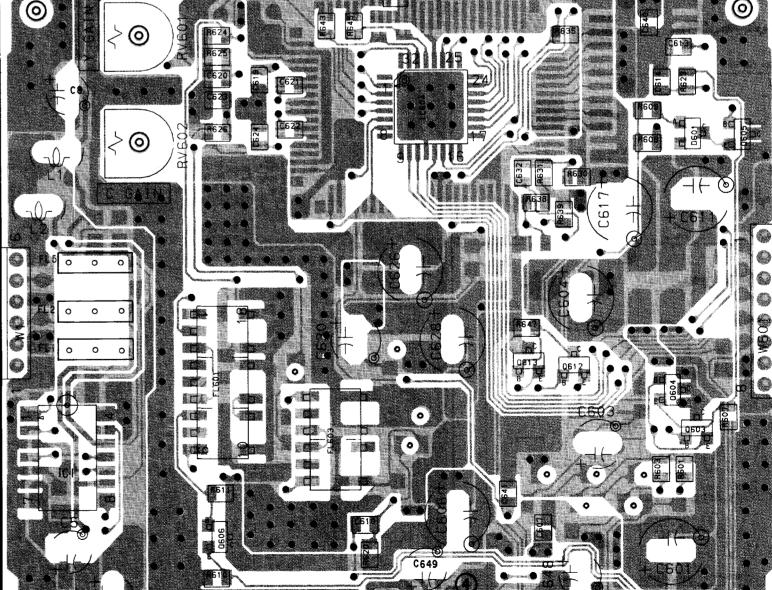
-Ref. No. CD-64 BOARD: 6000 series-

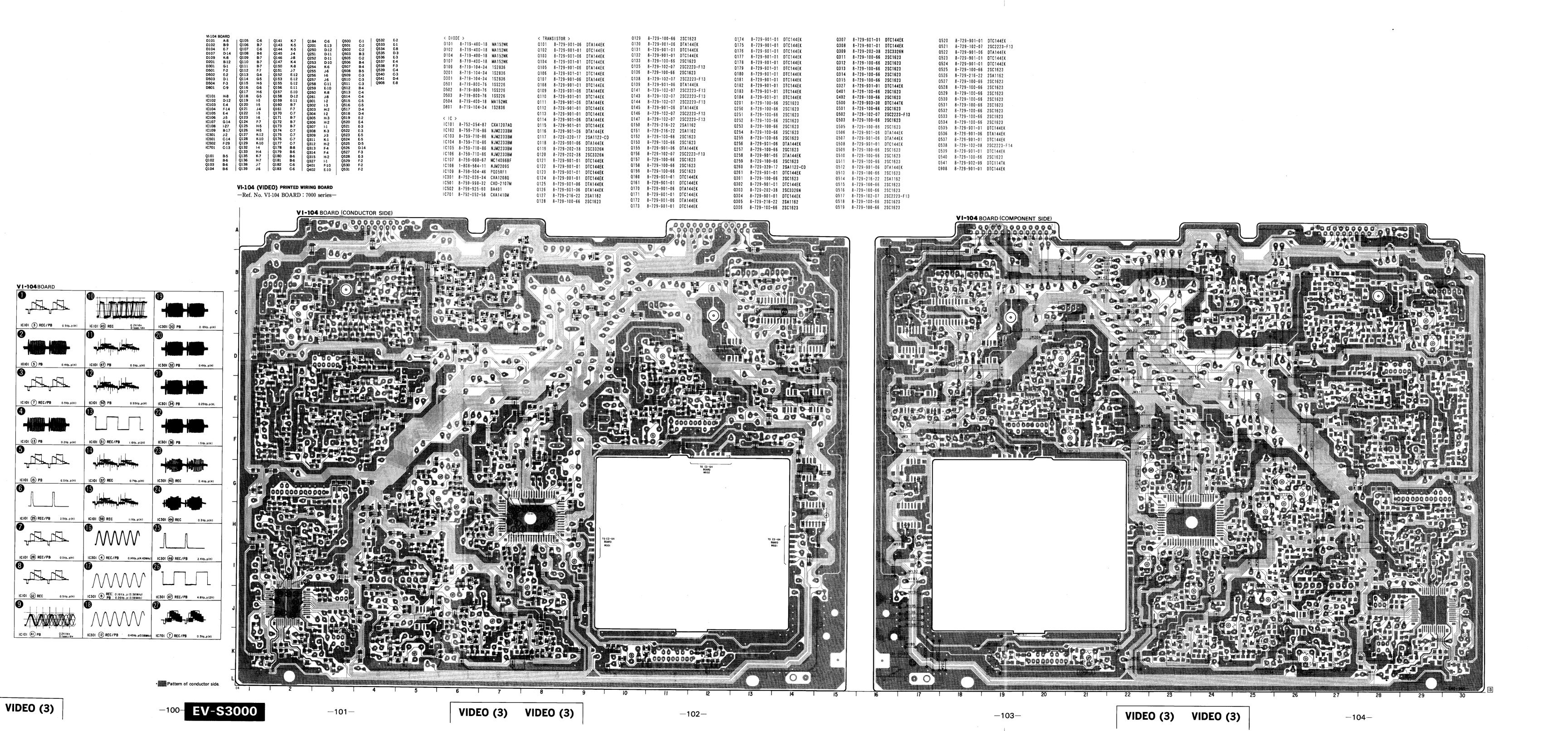
< TRANSISTOR >

IC606 27 REC/PB 0.8Vp_p(H)

Explaints Charles Char

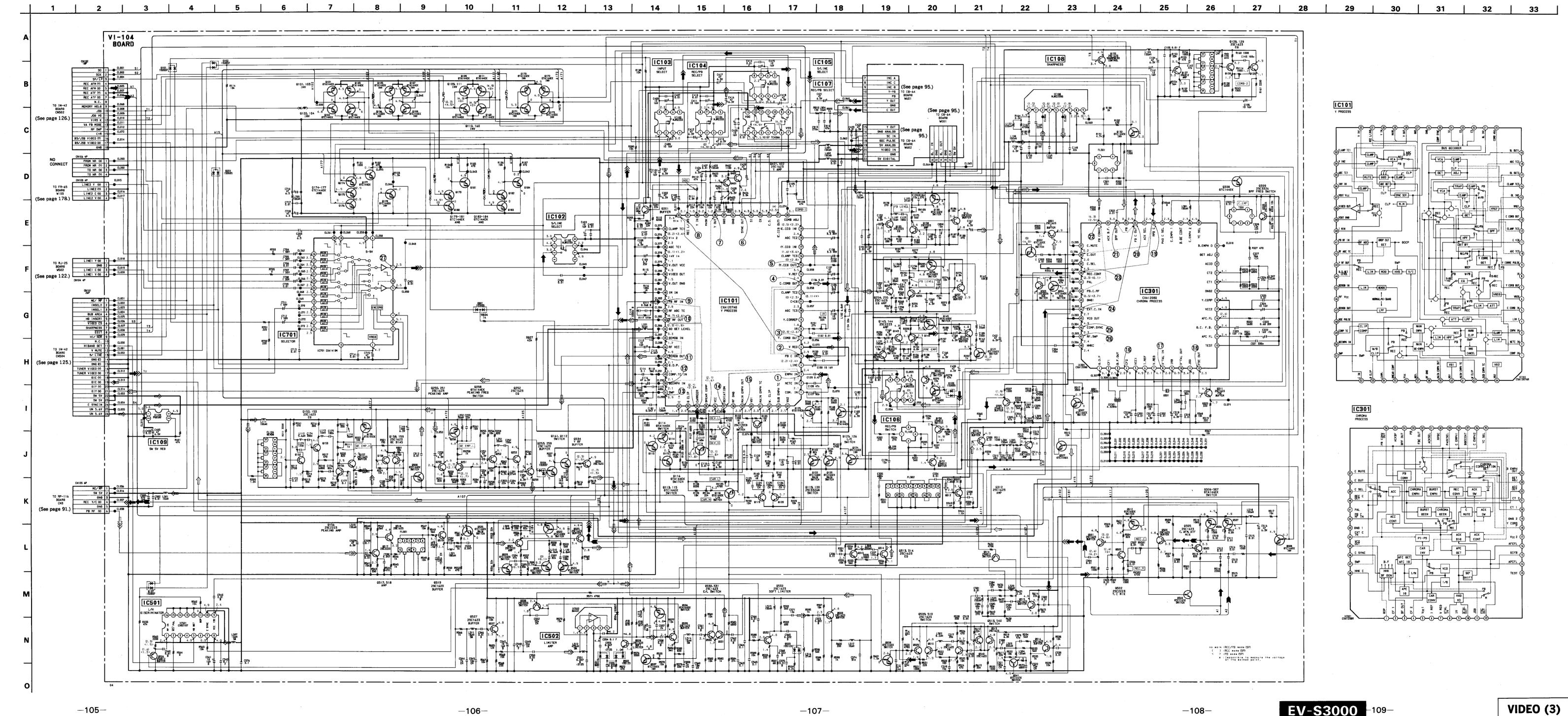






VI-104 (VIDEO) SCHEMATIC DIAGRAM -Ref. No. VI-104 BOARD: 7000 series➾

REC REC/PB PB D D Ref.signal



DI-46 (DIGITAL SIGNAL PROCESS) SCHEMATIC DIAGRAM -Ref. No. DI-46 BOARD: 1000 series-1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 DI-46 BOARD R695 C669 0702 Q603,604,613 (0.9) (4.6) IC717 WRITE (0.9) (2.3) (3.9) (2.9) (3.9) (4.8) 9501 9TC144EK INVERTER DI-46 BOARD CN601 5 REC/PB 2.5Vp-p(H) CN6016 REC/PB 4.8Vp-p (2V) CN602 2 REC/PB REC: 0.48 Vp-p(H) PB: 0.34 Vp-p(H) C747 C642 0.01 100 CN602 (4) REC/PB 0.9Vp-p(H) IC 703 (17) PB 6.4 Vp-p (M.318MHz) The the 1C708 (9) REC 0.8Vp-p(H) 1C708 (9) PB 1.4Vp-p(H) Q614.615,624,625 **MMMMM** Q631 B PB 1.6 Vp - p(14.318MHz) () : REC mode (SP)
() : PB mode (SP)
*: impossible to measure the voltage at the marked points. DIGITAL DIGITAL

DIGITAL

-111-

-112-

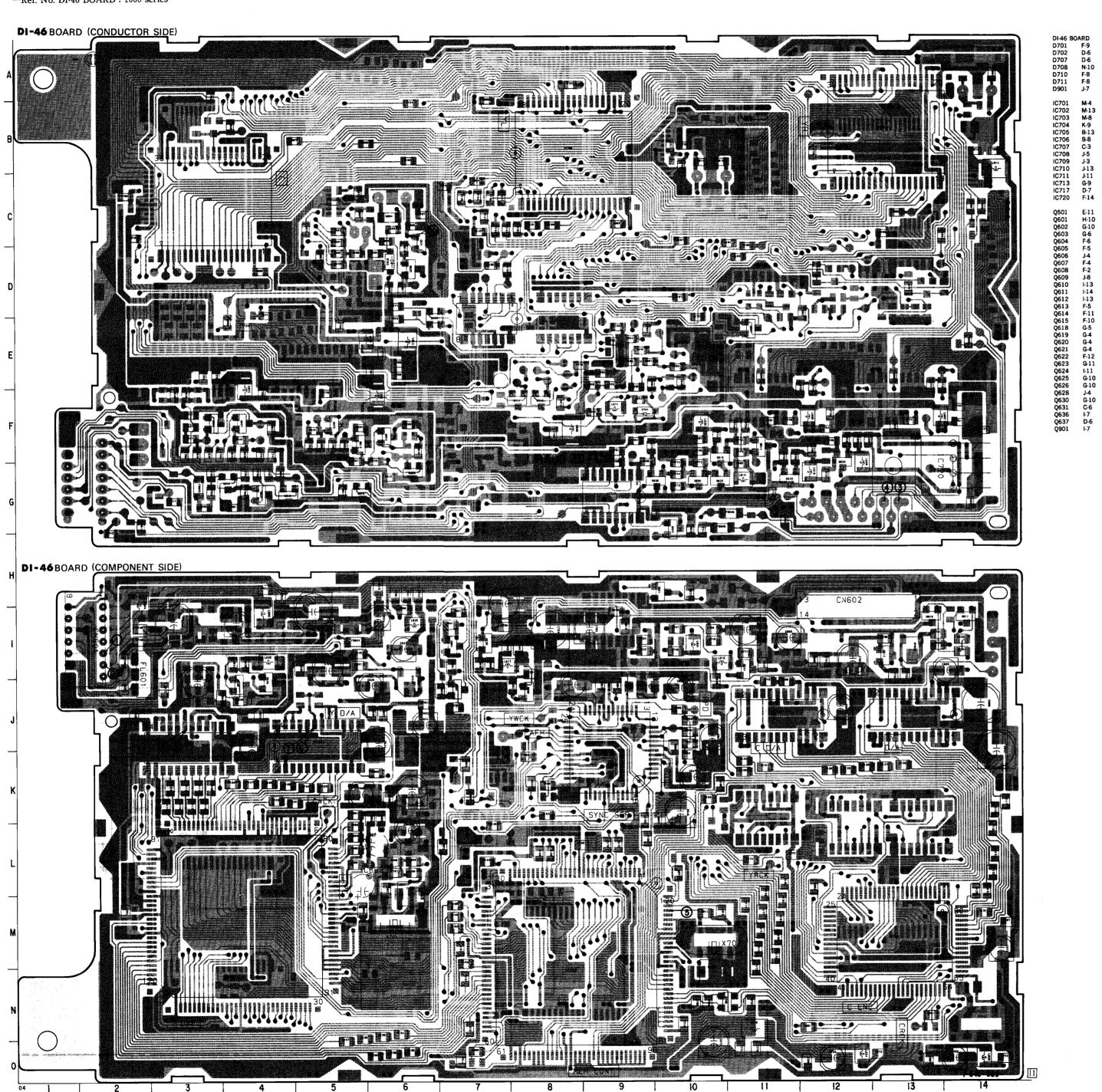
-113-

DIGITAL DIGITAL

-114-

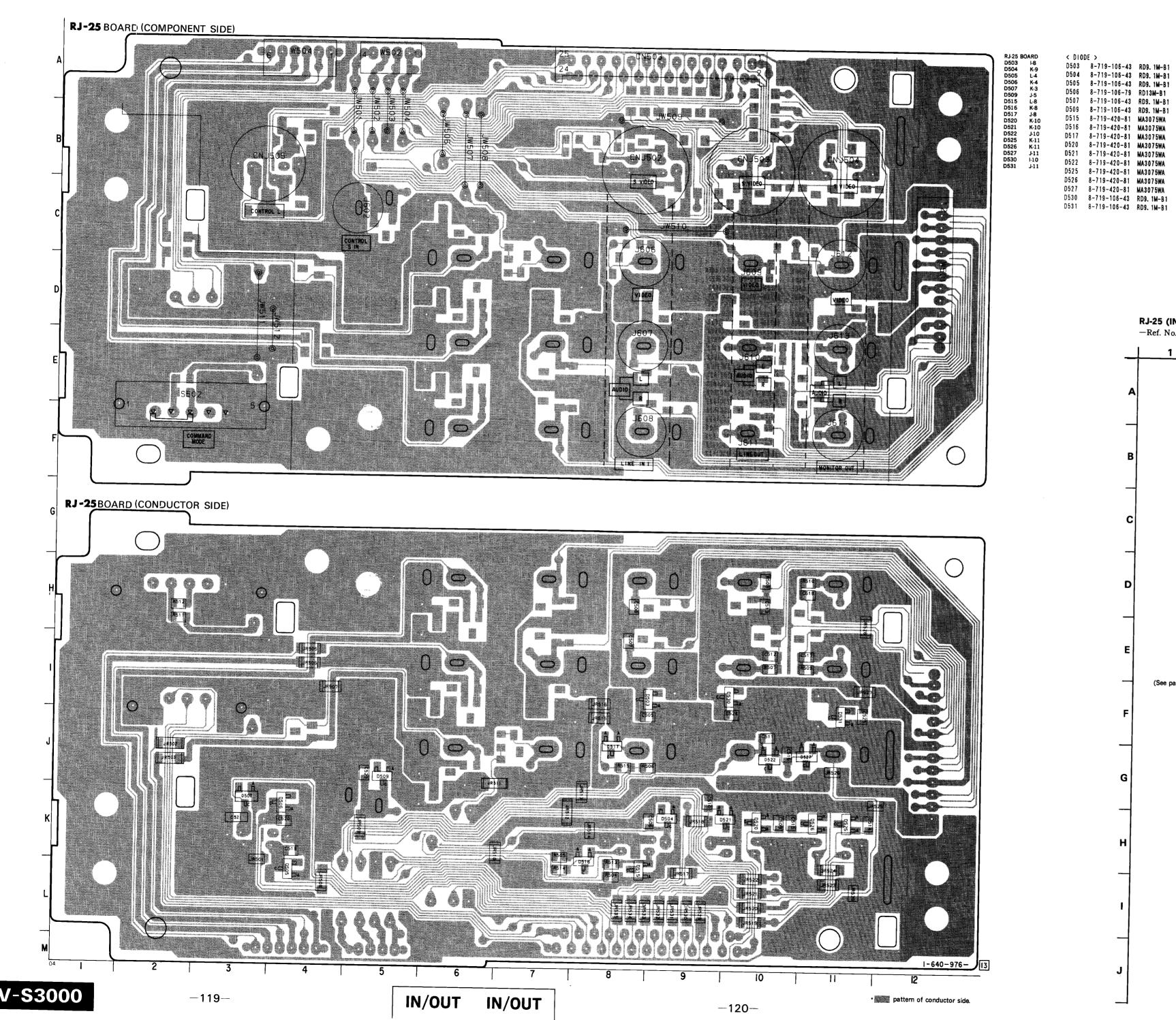
-Ref. No. DI-46 BOARD: 1000 series-

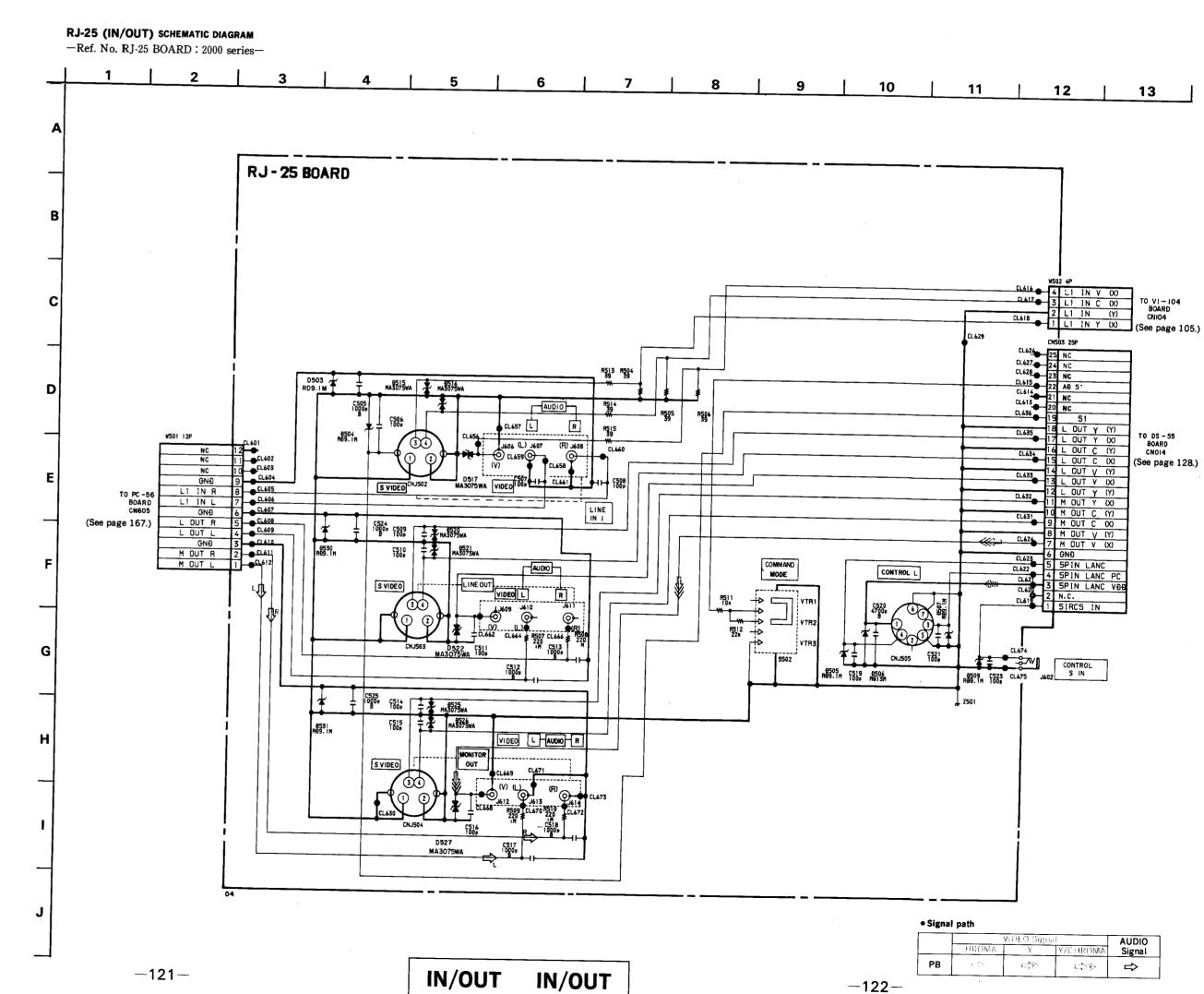
-115-



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D701 8-713-300-88 1T33C-01
D702 8-719-949-46 1T32
D707 8-719-940-45 DWA010
D708 8-719-940-45 DWA010
D710 8-719-400-18 MA152WK
D711 8-719-400-18 MA152WK
D901 8-719-104-34 1S2836
IC701 8-759-987-17 CXD12260
1C702 8-759-987-18 CXD12270
 1C703 8-759-987-19 CXD12280
IC704 8-759-987-20 CXD12290
 IC705 8-752-340-75 CXK1206M
 IC706 8-752-340-75 CXK1206M
1C707 8-752-340-75 CXK1206M
 IC708 8-752-334-55 CXD1175AM
1C709 8-752-334-55 CXD1175AM
 IC710 8-752-032-96 CXA1106M
 1C711 8-752-032-96 CXA1106M
 IC713 8-759-011-65 MC74HC4053F
IC717 8-759-925-85 SN74HC32ANS
IC720 8-759-504-46 PQ05RF1
 < TRANSISTOR >
Q501 8-729-901-01 DTC144EK
 Q601 8-729-100-66 2SC1623
 Q602 8-729-100-66 2SC1623
 Q603 8-729-100-66 2SC1623
 0604 8-729-100-66 2SC1623
 Q605 8-729-100-66 2SC1623
 Q606 8-729-100-66 2SC1623
 Q607 8-729-100-66 2SC1623
 Q608 8-729-100-66 2SC1623
 Q609 8-729-216-22 2SA1162
 Q610 8-729-100-66 2SC1623
 Q611 8-729-100-66 2SC1623
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 Q613 8-729-100-66 2SC1623
 Q614 8-729-100-66 2SC1623
 Q615 8-729-100-66 2SC1623
 Q618 8-729-100-66 2SC1623
 Q619 8-729-100-66 2SC1623
 Q620 8-729-100-66 2SC1623
 Q621 8-729-100-66 2SC1623
 Q622 8-729-100-66 2SC1623
 Q623 8-729-100-66 2SC1623
 Q624 8-729-100-66 2SC1623
 Q625 8-729-100-66 2SC1623
 Q626 8-729-100-66 2SC1623
 Q628 8-729-100-66 2SC1623
 Q630 8-729-100-66 2SC1623
 Q631 8-729-102-08 2SC2223-F14
 Q636 8-729-216-22 2SA1162
 Q637 8-729-122-63 2SA1226
Q901 8-729-901-01 DTC144EK
```

EV-S3000





IN-42 BOARD (COMPONENT SIDE) 22222 IN-42BOARD (CONDUCTOR SIDE

IN-42 (RELAY) SCHEMATIC DIAGRAM
—Ref. No. IN-42 BOARD: 5000 series—

9 | 10 | 11 | 12 | 13 | 14 | 15 (See page 105.) | Case | IN-42 BOARD CL612 CL555 CL688 2 RF 6ND TO RP-116
CL682 1 PB RF CO CM514 2P EL 2.0 MLK (See page 91.) 1 CL603
2 CL62
3 CL605
4 CL605
CL605
CL605
CL6064 0.650 (See page 146.) TU-100 BOARD CHOOL (See page 156.)

-123-

< DIODE > D001 8-719-400-18 MA152WK

Q001 8-729-901-00 DTC124EK Q002 8-729-901-00 DTC124EK

Q003 8-729-901-00 DTC124EK

Q004 8-729-901-00 DTC124EK

< TRANSISTOR >

IN-42 (RELAY) PRINTED WIRING BOARD

-Ref. No. IN-42 BOARD: 5000 series-

-124--

• pattern of conductor side.

—125—

-126- **EV-S3000**

< TRANSISTOR > 0203 8-729-100-66 2SC1623 Q226 8-729-216-22 2SA1162 D001 8-719-200-36 E10QS04 IC004 8-759-008-67 MC14066BF 0001 8-729-901-04 DTA114EK 0204 8-729-100-66 2SC1623 D002 8-719-200-36 E10QS04 10005 8-759-990-07 TL1596CNS 0207 8-729-216-22 2SA1162 0002 8-729-901-04 DTA114EK 0247 8-729-900-53 DTC114EK D003 8-719-200-27 E10DS2 0003 8-729-807-87 2SB1295-UL6 IC101 8-752-834-15 CXP80316-016Q Q208 8-729-216-22 2SA1162 Q230 8-729-901-01 DTC144EK Q248 8-729-100-66 2SC1623 0209 8-729-216-22 2SA1162 0210 8-729-216-22 2SA1162 D004 8-719-400-18 MA152WK IC104 8-759-513-72 PQ12RF11 0004 8-729-901-01 DTC144EK Q233 8-729-216-22 2SA1162 0249 8-729-100-66 2SC1623 D005 8-719-400-18 MA152WK IC105 8-759-513-73 PQ09RF11 Q005 8-729-805-25 2SB1121 Q236 8-729-100-66 2SC1623 0250 8-729-100-66 2SC1623 D007 8-719-400-18 MA152WK D008 8-719-200-02 10E2 IC201 8-752-055-95 CXA1409AQ-T3 Q006 8-729-216-22 2SA1162 Q211 8-729-100-66 2SC1623 Q237 8-729-100-66 2SC1623 IC202 8-759-631-10 M52684AFP Q007 8-729-216-22 2SA1162 Q212 8-729-100-66 2SC1623 Q238 8-729-100-66 2SC1623 D102 8-719-106-23 RD7. 5M-B2 IC203 8-759-300-71 HD14053BFP Q008 8-729-901-06 DTA144EK 0213 8-729-100-66 2501623 Q214 8-729-216-22 2SA1162 Q215 8-729-216-22 2SA1162 D202 8-719-400-18 MA152WK IC204 8-759-056-34 M50555-054FP 0009 8-729-901-01 DTC144EK Q240 8-729-901-01 DTC144EK

Q216 8-729-100-66 2SC1623

0217 8-729-216-22 2SA1162

Q218 8-729-100-66 2SC1623

0017 8-729-901-01 DTC144EK

Q102 8-729-140-98 2SD773

0201 8-729-100-66 2SC1623

0202 8-729-100-66 2SC1623

DS-55 (OUTPUT SELECTOR) PRINTED WIRING BOARD -Ref. No. DS-55 BOARD: 1000 seriesD212 8-719-105-92 RD5.6M-B3

1C205 8-759-710-29 NJM2235M

IC206 8-759-710-09 NJM2233AM

1C207 8-759-300-71 TC4053BF

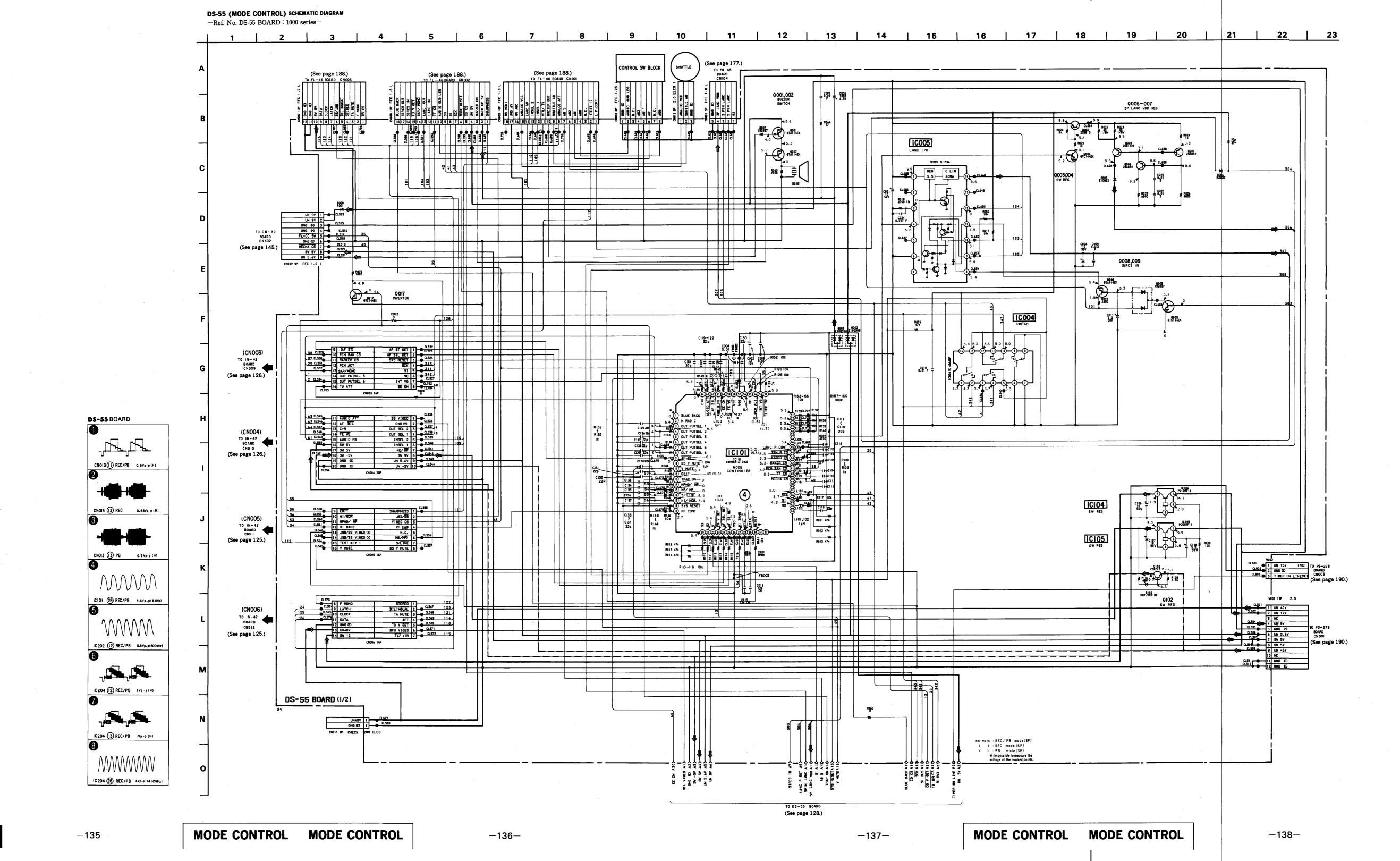
IC211 8-759-710-09 NJM2233AM

DS-55 BOARD(COMPONENT SIDE)

Q241 8-729-100-66 2SC1623

0244 8-729-100-66 2SC1623

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Q203 8-729-100-66 2SC1623 Q245 8-729-216-22 2SA1162 Q226 8-729-216-22 2SA1162 Q246 8-729-900-53 DTC114EK Q204 8-729-100-66 2SC1623 Q228 8-729-216-22 2SA1162 Q001 8-729-901-04 DTA114EK IC004 8-759-008-67 MC14066BF D001 8-719-200-36 E10QS04 Q229 8-729-901-01 DTC144EK 1C005 8-759-990-07 TL1596CNS Q002 8-729-901-04 DTA114EK Q207 8-729-216-22 2SA1162 D002 8-719-200-36 E10QS04 Q248 8-729-100-66 2SC1623 Q230 8-729-901-01 DTC144EK Q003 8-729-807-87 2SB1295-UL6 Q208 8-729-216-22 2SA1162 IC101 8-752-834-15 CXP80316-016Q D003 8-719-200-27 E10DS2 Q249 8-729-100-66 2SC1623 Q250 8-729-100-66 2SC1623 Q233 8-729-216-22 2SA1162 Q209 8-729-216-22 2SA1162 1C104 8-759-513-72 PQ12RF11 Q004 8-729-901-01 DTC144EK D004 8-719-400-18 MA152WK Q236 8-729-100-66 2\$C1623 Q210 8-729-216-22 2SA1162 IC105 8-759-513-73 PQ09RF11 Q005 8-729-805-25 2SB1121 D005 8-719-400-18 MA152WK IC201 8-752-055-95 CXA1409AQ-T3 Q211 8-729-100-66 2SC1623 Q007 8-729-216-22 2SA1162 Q212 8-729-100-66 2SC1623 IC202 8-759-631-10 M52684AFP Q239 8-729-100-66 2SC1623 Q213 8-729-100-66 2SC1623 Q008 8-729-901-06 DTA144EK D102 8-719-106-23 RD7. 5M-82 Q214 8-729-216-22 2SA1162 Q009 8-729-901-01 DTC144EK 1C204 8-759-056-34 M50555-054FP D202 8-719-400-18 MA152WK Q215 8-729-216-22 2SA1162 IC205 8-759-710-29 NJM2235M D212 8-719-105-92 RD5.6M-83 Q017 8-729-901-01 DTC144EK Q242 8-729-100-66 2SC1623 Q216 8-729-100-66 2SC1623

Q217 8-729-216-22 2SA1162

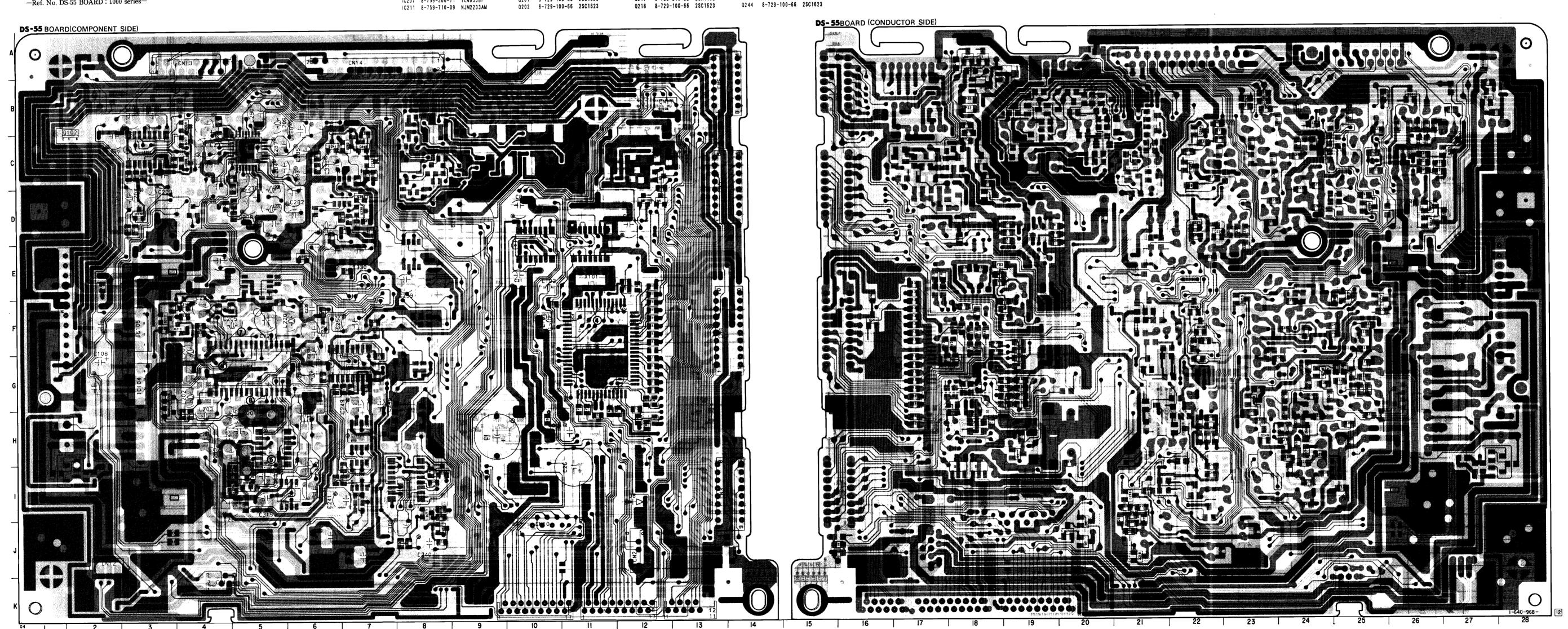
Q201 8-729-100-66 2SC1623

1C206 8-759-710-09 NJM2233AM

IC207 8-759-300-71 TC4053BF

D213 8-719-800-76 1SS226

DS-55 (MODE CONTROL) PRINTED WIRING BOARD -Ref. No. DS-55 BOARD: 1000 series-



Q243 8-729-100-66 2SC1623

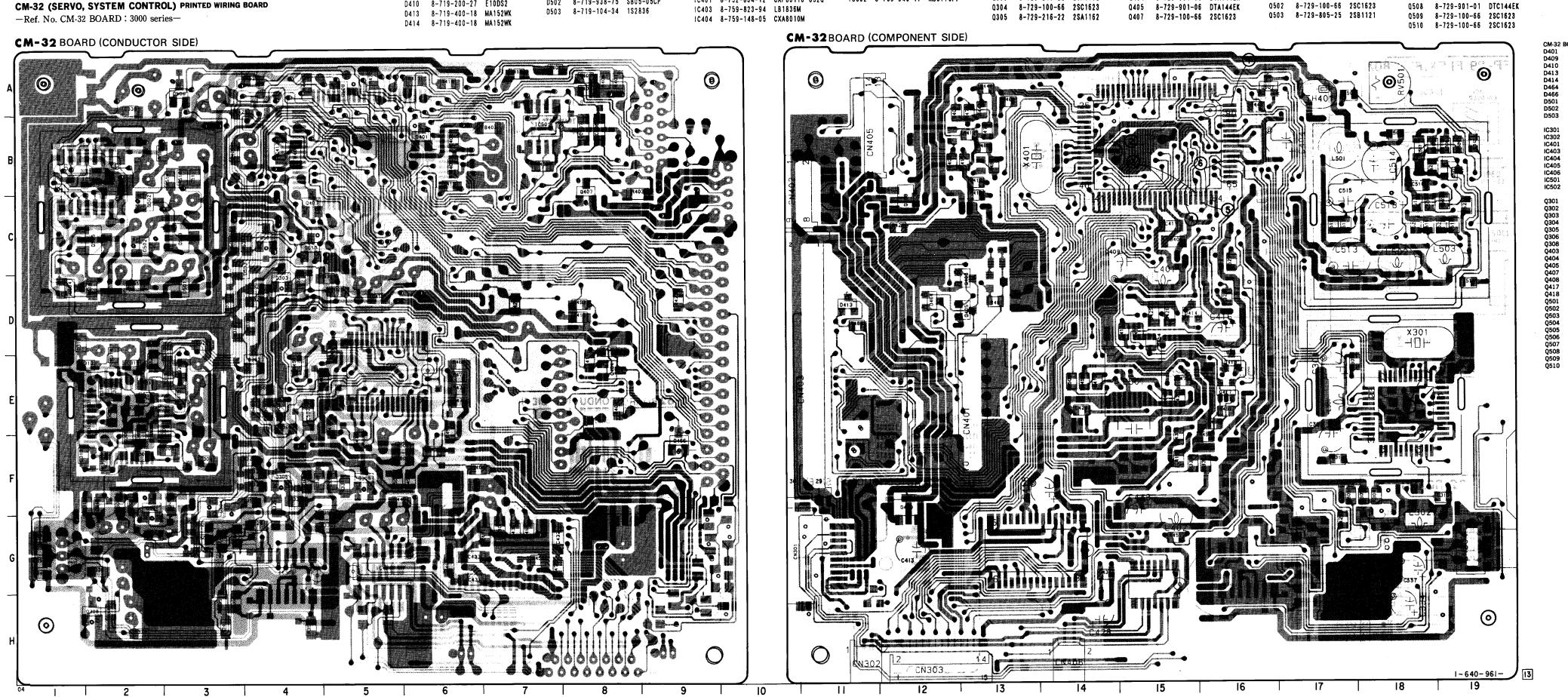
EV-S3000

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-139-

Signal path

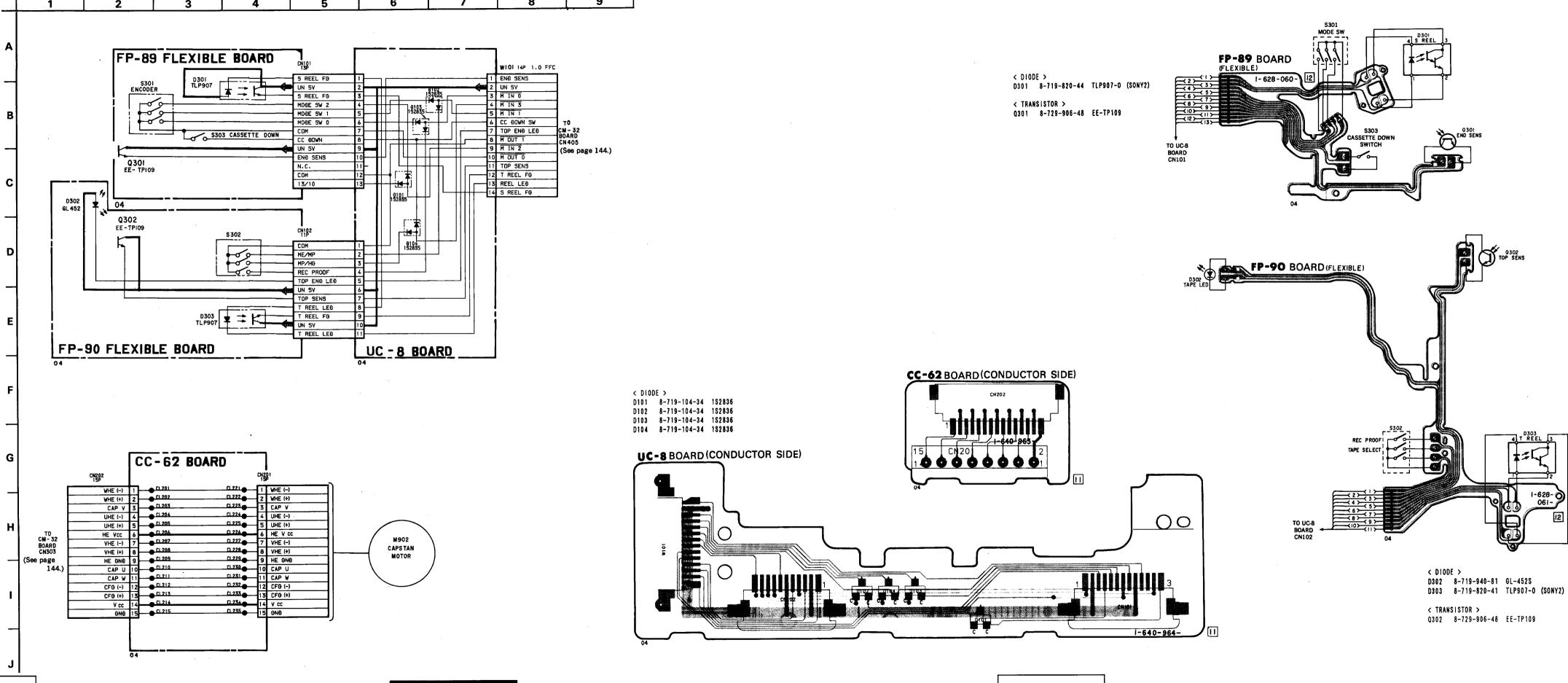
Ref.signal



-148-

-149-

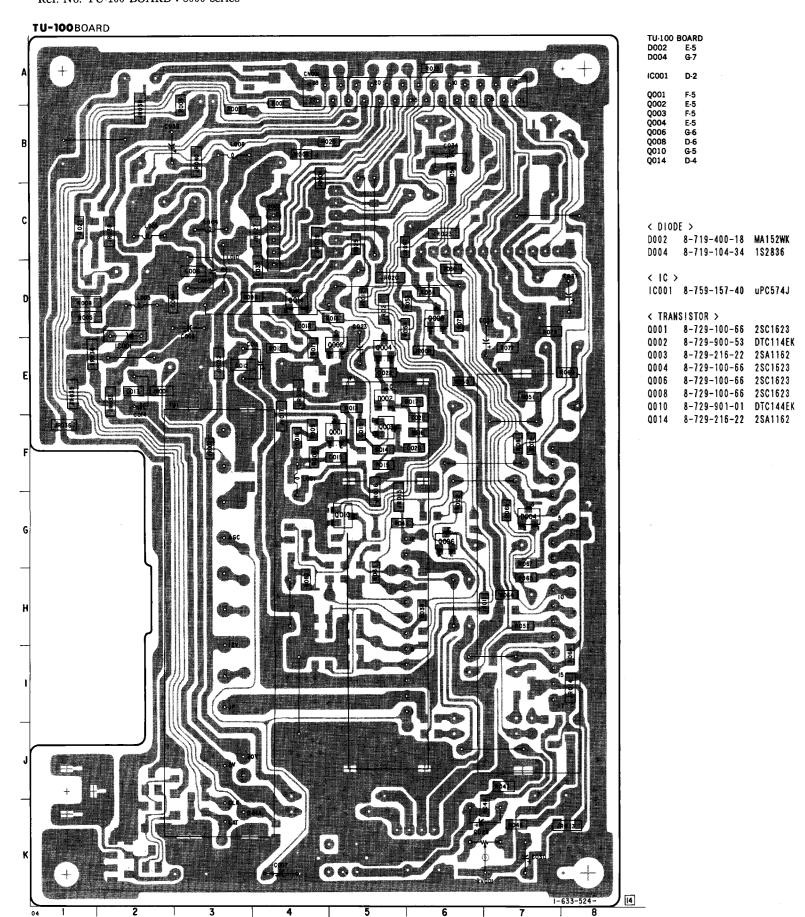
-Ref. No. CC-62 BOARD: 3000 series, FP-89 and FP-90 BOARDS: 2000 series, UC-8 BOARD: 6000 series-

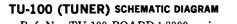


--150--

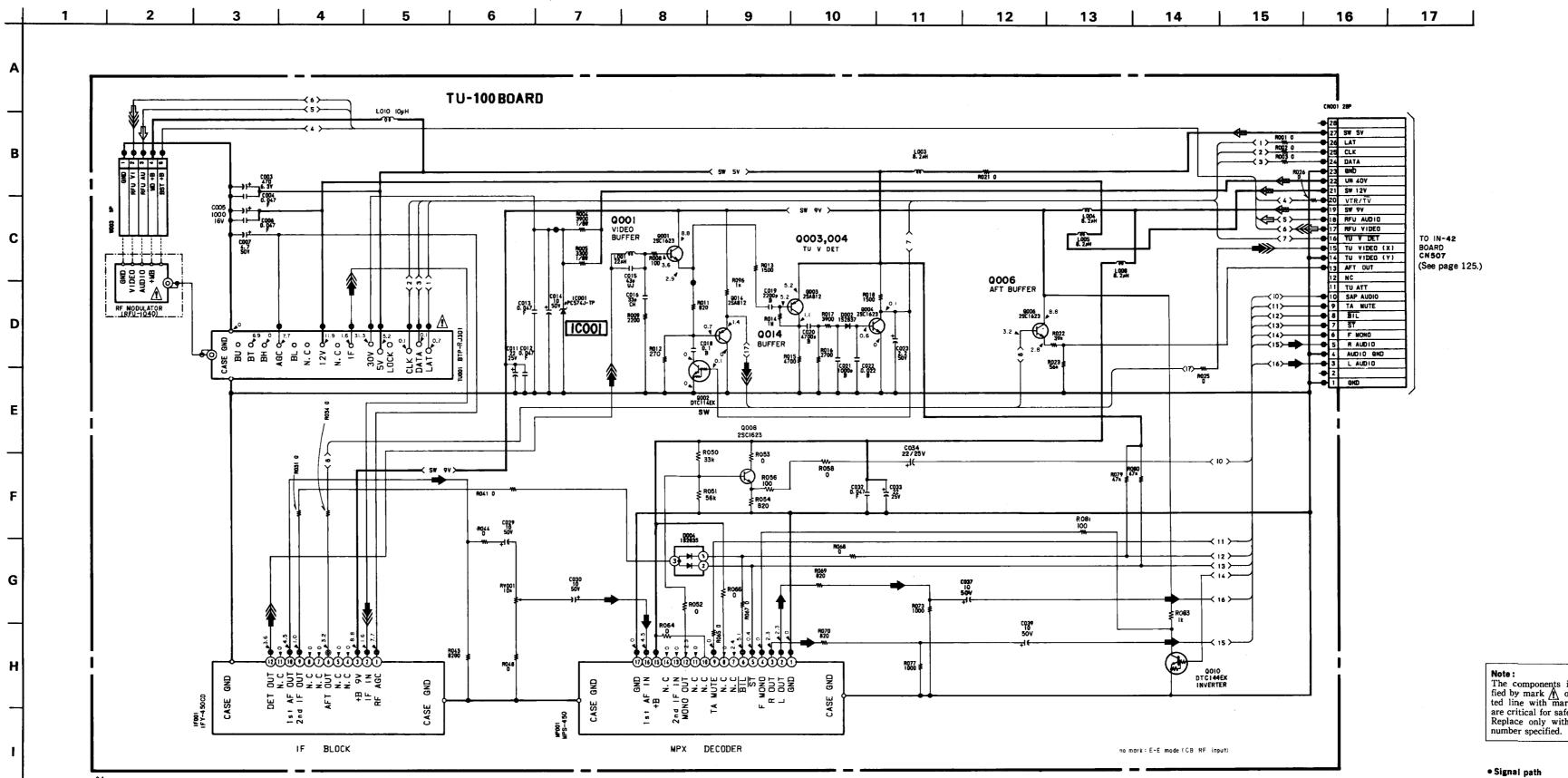
TU-100 (TUNER) PRINTED WIRING BOARD

-Ref. No. TU-100 BOARD: 8000 series-





-Ref. No. TU-100 BOARD: 8000 series-



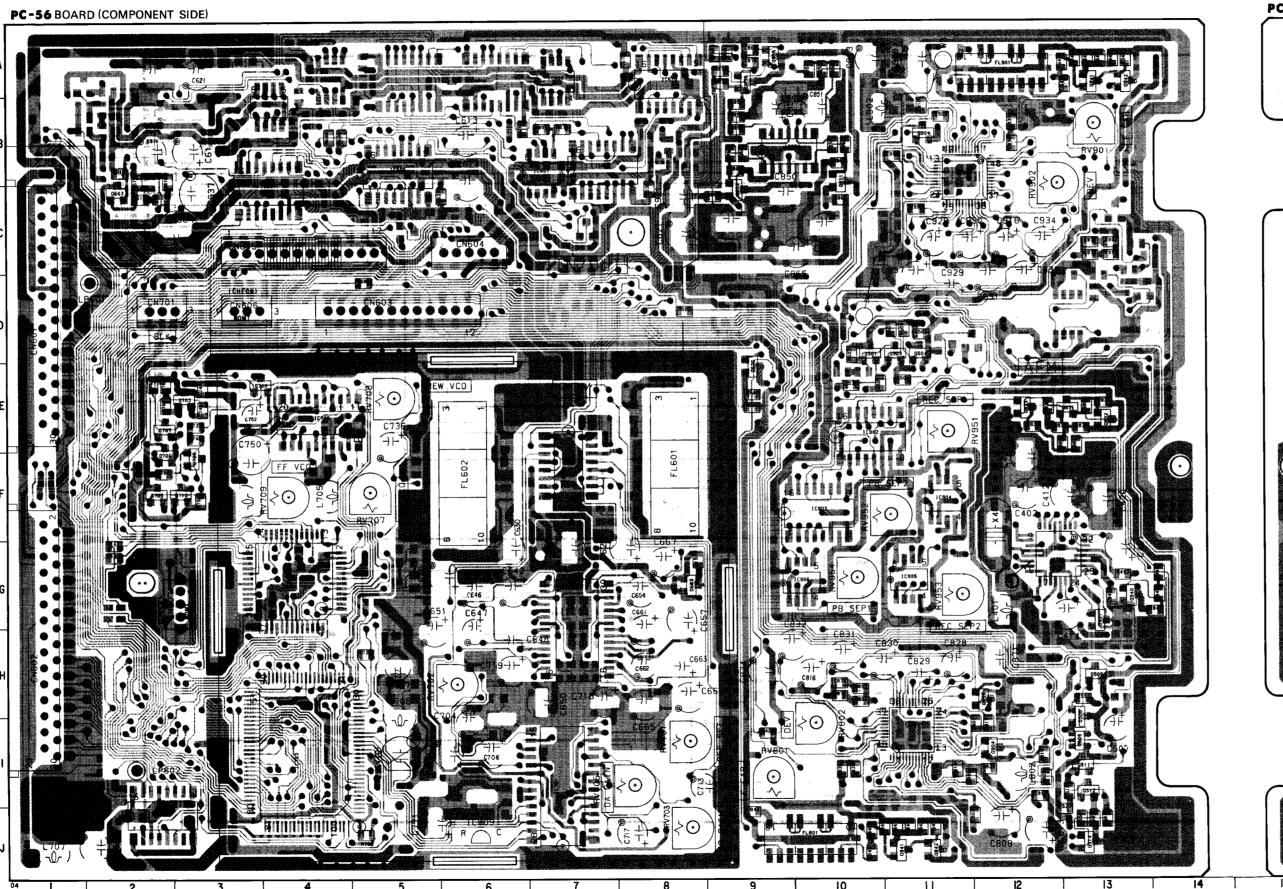
• Signal path

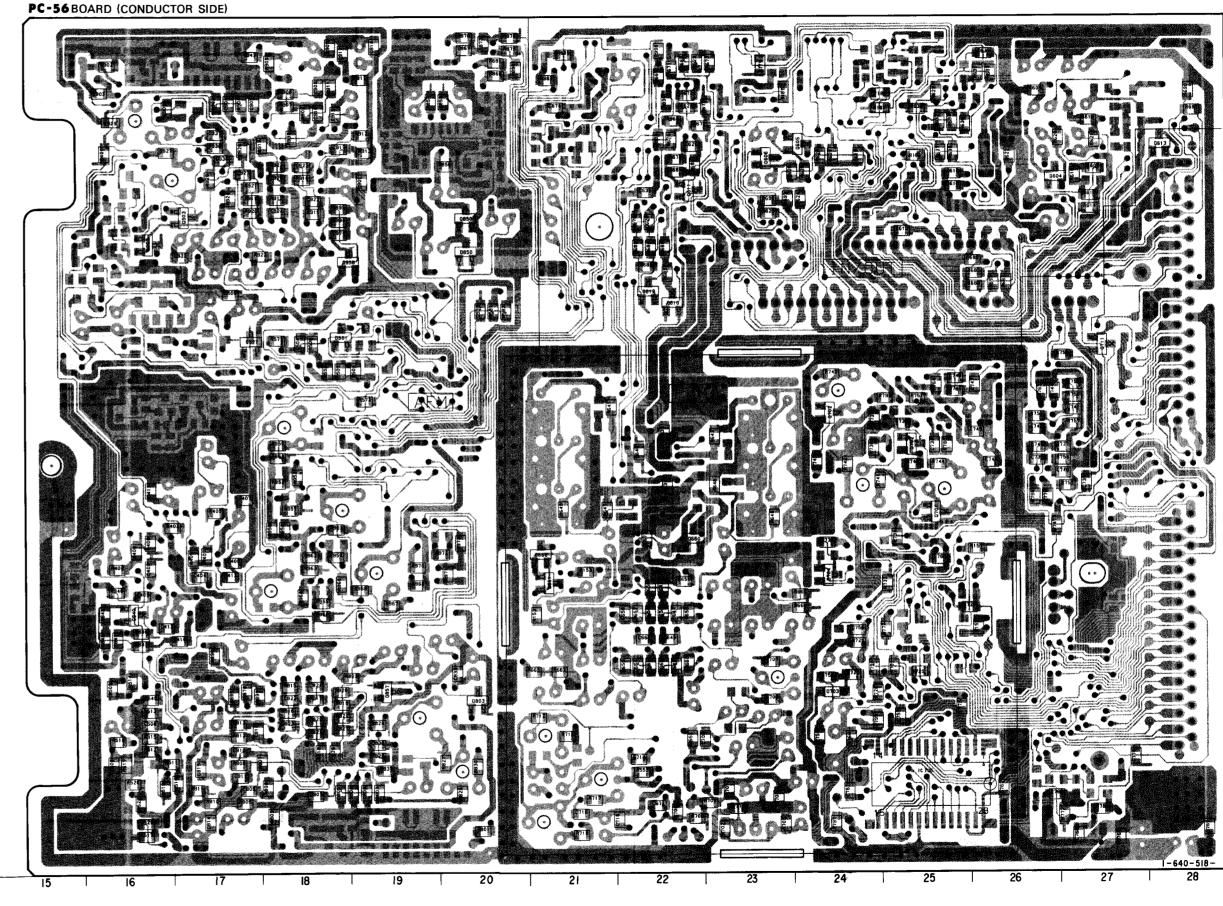
		VIDEO Signa		AUDIO
	CHROMA	Y	Y/CHROMA	Signal
REC	→	→>>	→>>>	•
PB	⇧	➾	⊏>>>	介

PC-56 (AFM PROCESS) PRINTED WIRING BOARD

-Ref. No. PC-56 BOARD: 9000 series-

DIOD	F >		0709	8-729-100-66	2SC1623	PC-56 B		
401	8-719-400-18	MA152WK	0710	8-729-901-06	DTA144EK	D401 D501	H-13 D-18	Q
501	8-719-104-34	1\$2836	0711	8-729-901-01	DTC144EK	D603	G-8	Į Č
603	8-719-104-34	182836	Q803	8-729-901-01	DTC144EK	D702	F-25	Q
702	8-719-400-18	MA152WK	Q804	8-729-100-66	2SC1623	D703 D704	H-24 G-24	Q
703	8-713-300-88	1T33C-01	0831	8-729-100-66	2SC1623	D850	C-20	Q
704	8-719-104-34	182836	Q832	8-729-216-22	2SA1162	10404		Q
850	8-719-400-18	MA152WK	Q833	8-729-901-04	DTA114EK	IC401 IC601	G-12 C-3	Q
•••	3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		0840	8-729-100-66	2SC1623	IC604	B-4	Q
C >			Q841	8-729-100-66	2SC1623	IC605	B-5	Q
C401	8-752-334-42	CXD2106Q	0842	8-729-100-66	2SC1623	IC606 IC607	A-7 B-7	Į
C601	8-759-300-71	HD14053BFP	Q850	8-729-901-01	DTC144EK	IC608	F-7	Q
C604	8-759-981-99	RC4560M	0851	8-729-100-66	2SC1623	IC609	B-7	Q
C605	8-759-009-06	MC14052BF	0852	8-729-100-66	2SC1623	IC610 IC614	A-8 H-7	Q
C606	8-759-981-99	RC4560M	Q855	8-729-100-66	2SC1623	1C701	1-7	Q
C607	8-759-981-99	RC4560M	Q856	8-729-100-66	2SC1623	IC703 IC704	J-2	Q
C608	8-759-300-71	HD14053BFP	Q857	8-729-901-01	DTC144EK	IC705	1.25	ò
C609	8-759-009-06	MC14052BF	Q858	8-729-901-01	DTC144EK	IC707	G-4	Q
C610	8-759-009-06	MC14052BF	Q903	8-729-901-01	DTC144EK	IC708 IC709	E-4 J-6	Q
C614	8-759-822-92	LA7451M	Q904	8-729-100-66	2501623	IC801	J-6 I-11	١ŏ
C703	8-752-332-46	CXD1208Q	Q940	8-729-100-66	2SC1623	IC850	B-9	Q
C704	8-759-009-51	MC14538BF	Q941	8-729-100-66	2SC1623	IC901 IC902	B-11 E-10	
C705	8-759-507-53	MS6264CLL-15FC	0942	8-729-100-66	2801623	IC903	F-10	
C707	8-759-502-14	CF79050PV	0957	8-729-901-01	DTC144EK	IC904	F-11	
C708	8-752-010-20	CX20102	Q958	8-729-901-01	DTC144EK	IC905 IC906	G-11 G-10	
C709	8-759-908-15	TL431CLP	4330	0 120 301 01	DIOITTER	10906	G-10	
C801	8-752-033-01	CXA1237AR				Q501	D-10	
C850	8-759-998-71	BA3308F				Q503	D-11 D-11	
IC901	8-752-033-01	CXA1237AR				Q504 Q506	H-13	
C902	8-759-009-06	MC14052BF				Q508	I-13	
1C903	8-759-009-06	MC14052BF				Q509 Q511	I-13 I-13	
IC904	8-759-981-99	RC4560M				Q512	1-13	
10905	8-759-981-99	RC4560M				Q514	J-13	
IC906	8-759-981-99	RC4560M				Q515 Q526	C-15 E-9	
	IO I OTAR					Q527 Q603	D-17 C-2	
	ISISTOR >					Q604	B-26	
0501	8-729-100-66	2SC1623				Q605 Q606	B-24 B-23	
0503	8-729-100-66	2SC1623				Q610	D-22	
2504	8-729-902-99	DTC114TK				Q611	C-22	Ì
2506	8-729-216-22	2SA1162				Q612 Q613	D-22 B-28	
2508	8-729-100-66	2SC1623				Q660	G-22	
2509	8-729-903-10	FMW1				Q661	G-21	
2511	8-729-100-66	25C1623				Q662 Q701	G-21 I-7	
2512	8-729-100-66	2SC1623				Q702	E-24	
2514	8-729-216-22	2SA1162				Q703	E-3	
0526	8-729-100-66	2501623				Q705 Q706	F-2 F-2	
2527	8-729-901-01	DTC144EK				4,50		1
2603	8-729-100-66	2SC1623						
0604	8-729-100-66	25C1623						
0605	8-729-100-66	25C1623						
0606	8-729-100-66	2SC1623						
0610	8-729-901-06	DTA144EK						
2611	8-729-116-05	2SK160-K5						
0612	8-729-116-05	2SK160-K5						
0613	8-729-100-66	2SC1623						
0660	8-729-100-66	2SC1623						
0661	8-729-216-22	2SA1162						
Q662 Q701	8-729-216-22 8-729-901-06	2SA1162 DTA144EK						



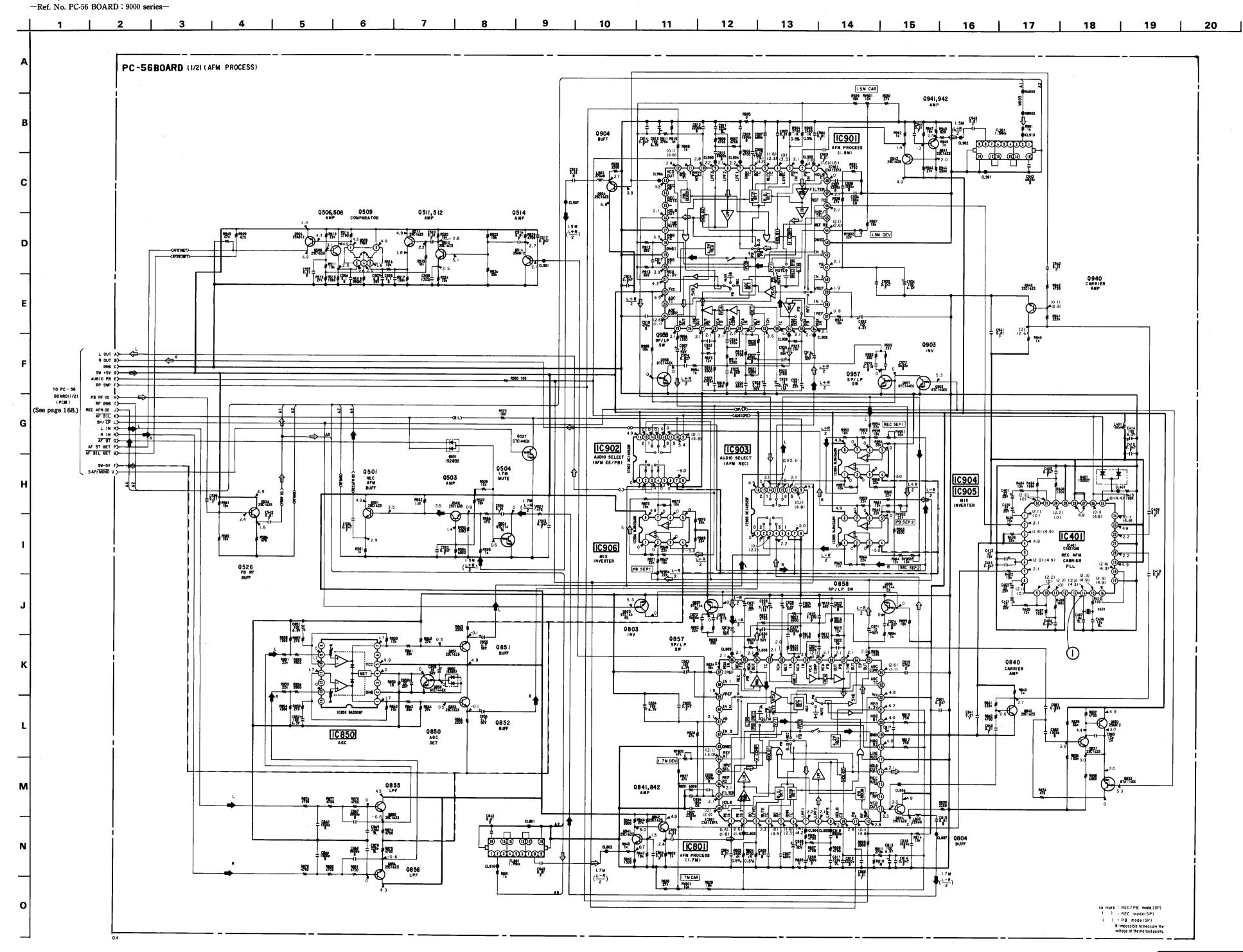


AUDIO (1)

Q702 8-729-901-01 DTC144EK Q703 8-729-100-66 2SC1623 Q705 8-729-100-66 2SC1623 Q706 8-729-100-66 2SC1623 Q707 8-729-100-66 2SC1623 Q708 8-729-901-06 DTA144EK

AUDIO (1) AUDIO (1)

AUDIO (1) AUDIO (1)



PC - 56 BOARD

IC401 (4) REC

Signal path

REC

РВ

AUDIO Signal

-

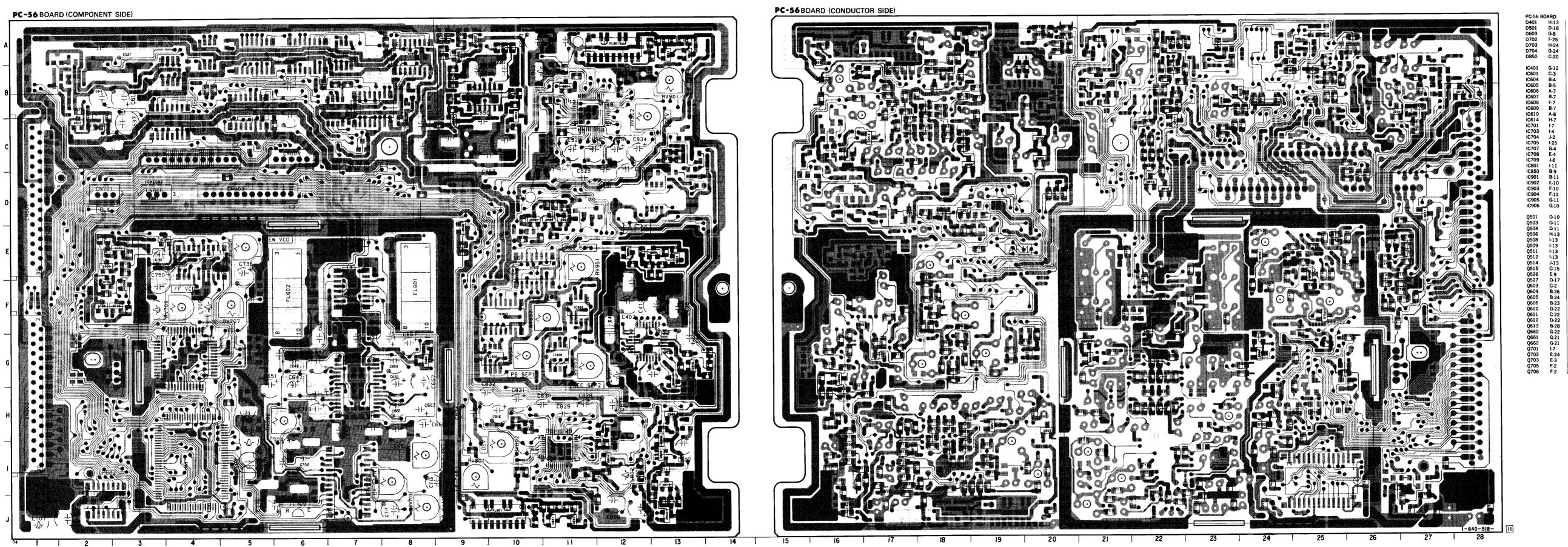
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EV-S3000

AUDIO (2)

AUDIO (2)



6 B	OARD H-13	1 0707	E-2	< D1001	E >	
	D-18	Q707 Q708	E-3	D401	8-719-400-18	MA152WK
3	G-8 F-25	Q709 Q710	F-3 F-3	D501	8-719-104-34	1S2836 1S2836
3	H-24	Q711	D-27	D603 D702	8-719-104-34 8-719-400-18	MA152WK
)	G-24 C-20	Q803 Q804	l-20 l-12	D702	8-713-300-88	1T33C-01
		Q831	E-13	D704	8-719-104-34	152836
1 1	G-12 C-3	Q832 Q833	E-13 E-12	D850	8-719-400-18	MA152WK
4	B-4	Q840	G-16			
5 6	B-5 A-7	Q841 Q842	J-11 J-11	< IC >		04504000
7	B-7	Q850	C-20	1C401 1C601	8-752-334-42 8-759-300-71	CXD2106Q HD14053BFP
8 9	F-7 B-7	Q851 Q852	C-10 C-9	10604	8-759-981-99	RC4560M
0 4	A-8 H-7	Q855 Q856	A-9 A-9	10605	8-759-009-06	MC14052BF
1	1.7	Q857	H-19	IC606	8-759-981-99	RC4560M
3 4	l-4 J-2	Q858 Q903	H-12 C-17	10607	8-759-981-99	RC4560M
5	l-25	Q904	B-11	10608	8-759-300-71	HD14053BFP
7 8	G-4 E-4	Q940 Q941	G-13 A-13	10609 10610	8-759-009-06 8-759-009-06	MC14052BF MC14052BF
9	J-6	Q942	A-13	10614	8-759-822-92	LA7451M
1 0	I-11 B-9	Q957 Q958	C-16 C-18	10703	8-752-332-46	CXD1208Q
1 2	B-11 E-10			10704	8-759-009-51	MC14538BF
3	F-10			1C705	8-759-507-53	MS6264CLL-
5	F-11 G-11			10707	8-759-502-14	CF79050PV
6	G-10			1C708 1C709	8-752-010-20 8-759-908-15	CX20102 TL431CLP
l	D-10			10801	8-752-033-01	CXA1237AR
3 4	D-11 D-11			10850	8-759-998-71	BA3308F
5	H-13			I C 9 O 1	8-752-033-01	CXA1237AR
B 9	ŀ13 ŀ13			IC902	8-759-009-06	MC14052BF
1	l-13			10903	8-759-009-06	MC14052BF
2 4	I-13 J-13			1C904 1C905	8-759-981-99 8-759-981-99	RC4560M RC4560M
5 6	C-15 E-9			1C906	8-759-981-99	RC4560M
7	D-17 C-2			< TRAN	SISTOR >	
4 5	B-26 B-24			0501	8-729-100-66	2SC1623
6	B-23	i		Q503	8-729-100-66	2SC1623
0 1	D-22 C-22			Q504	8-729-902-99	DTC114TK
2	D-22 B-28			Q506	8-729-216-22	2SA1162
0	G-22			Q508 Q509	8-729-100-66 8-729-903-10	2SC1623 FMW1
1 2	G-21 G-21			Q511	8-729-100-66	2SC1623
1	l-7			0512	8-729-100-66	2SC1623
2 3	E-24 E-3			0514	8-729-216-22	2SA1162
5 6	F-2 F-2			0526	8-729-100-66	2801623
•	1-2	•		0527	8-729-901-01 8-729-100-66	DTC144EK 2SC1623
				Q603 Q604	8-729-100-66	2SC1623
				Q605	8-729-100-66	2801623
				Q606	8-729-100-66	2SC1623
				Q610	8-729-901-06	DTA144EK
				0611	8-729-116-05	2SK160-K5
				Q612	8-729-116-05	2SK160-K5
				Q613 Q660	8-729-100-66 8-729-100-66	2SC1623 2SC1623
				Q661	8-729-216-22	2SA1162
				0662	8-729-216-22	2SA1162
				Q701	8-729-901-06	DTA144EK
				0702	8-729-901-01	DTC144EK
				Q703	8-729-100-66	2801623
				Q705 Q706	8-729-100-66 8-729-100-66	2SC1623 2SC1623
				0707	8-729-100-66	2SC1623
				0700	0 720 001 06	DTATAGE

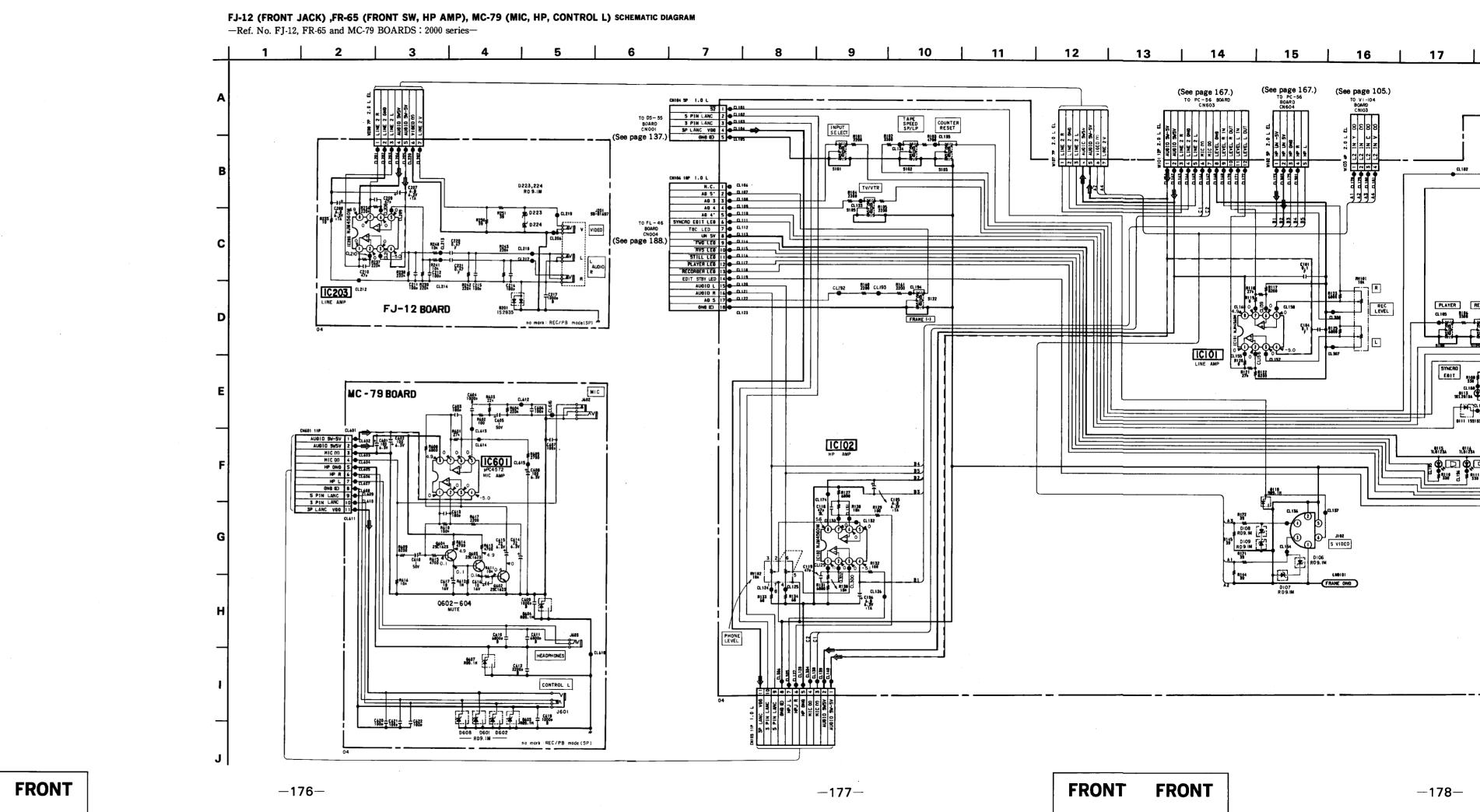
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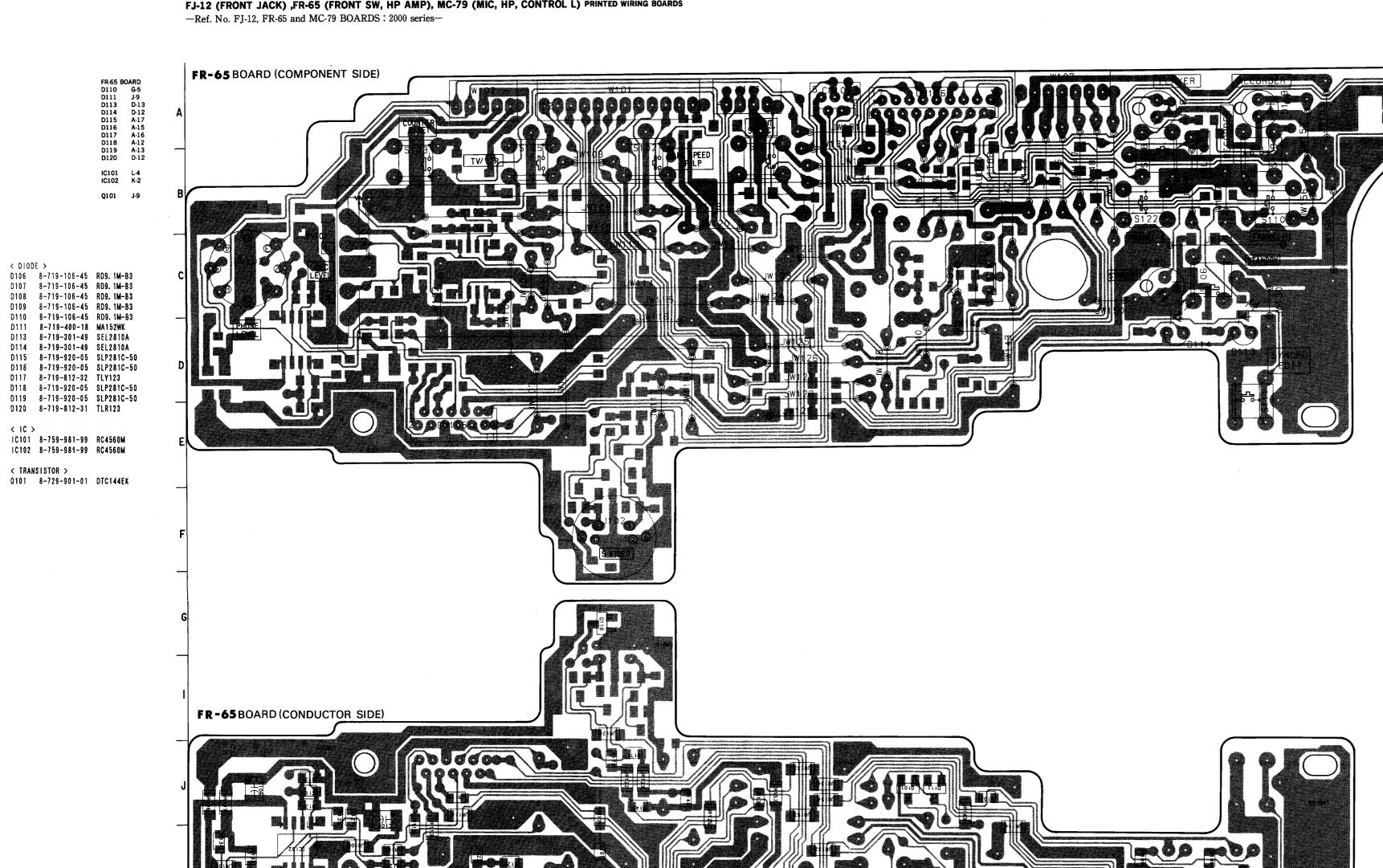
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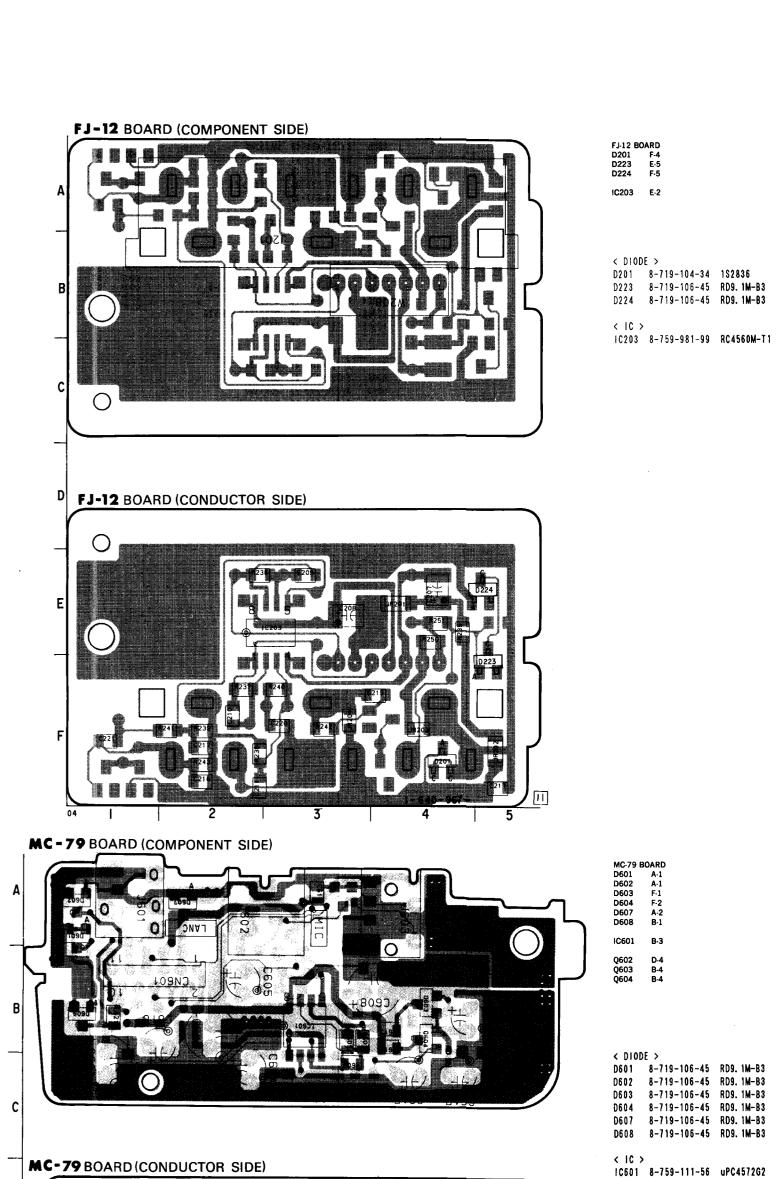
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0850 8-729-901-01

Q858 8-729-901-01 Q903 8-729-901-01 Q904 8-729-100-66 0940 8-729-100-66 Q942 8-729-100-66







FJ-12 and FR-65 boards • Pattern of conductor side. MC-79 board • Pattern from the side which enables seeing. : Pattern of the rear side.

< DIODE >

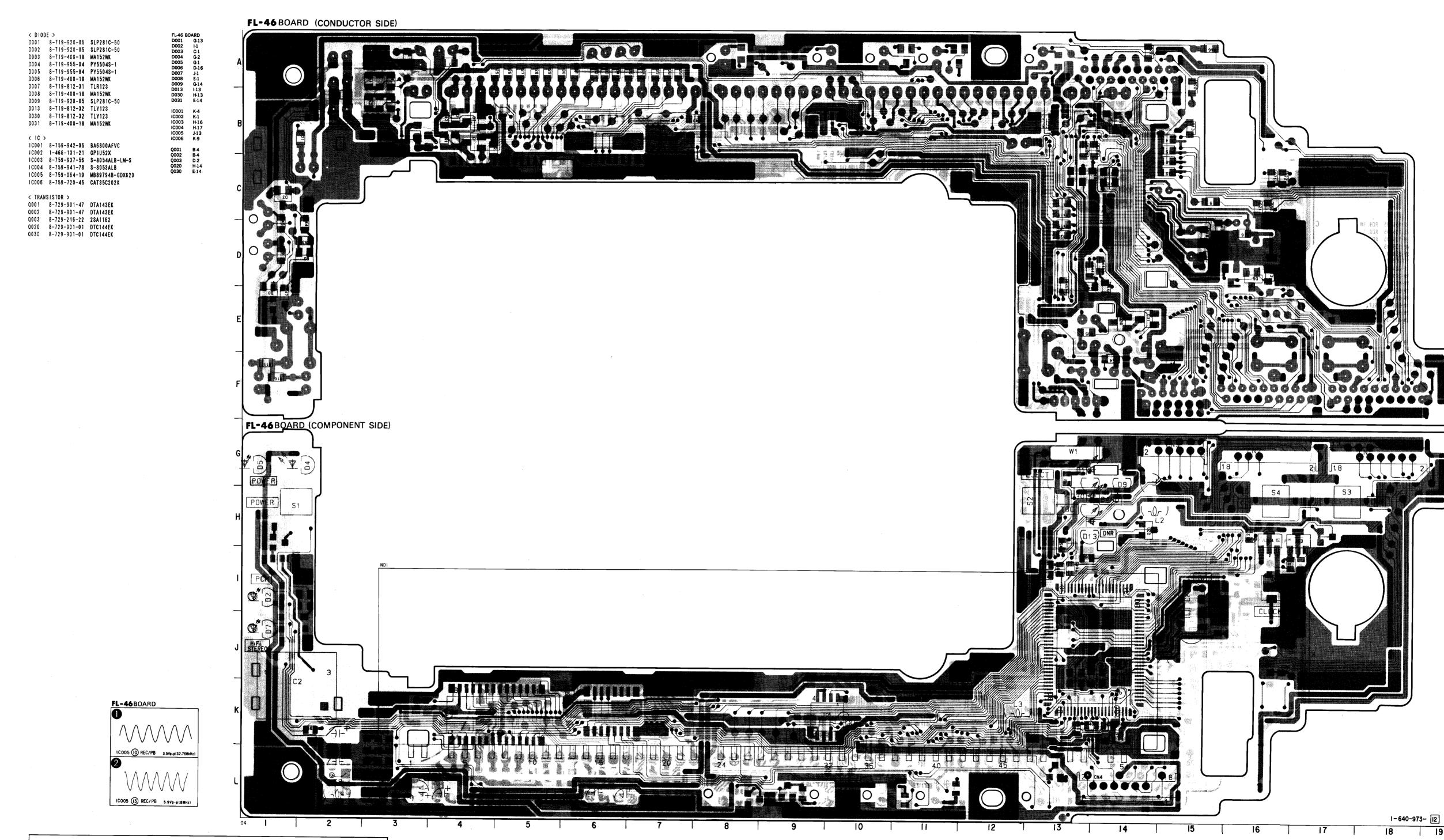
< TRANSISTOR >

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MC-79 BOARD (CONDUCTOR SIDE)

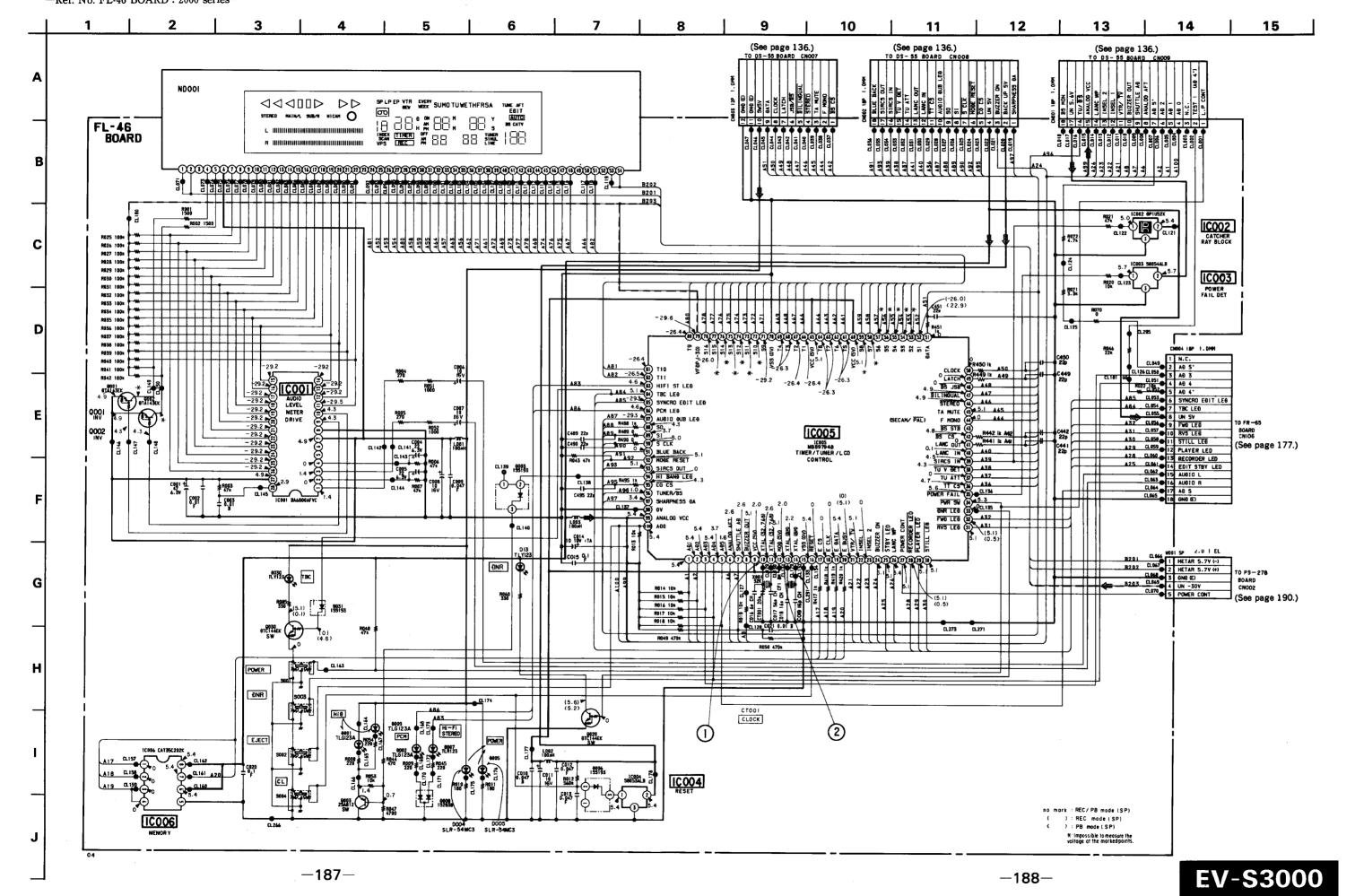
-181-

< TRANSISTOR > Q602 8-729-100-66 2SC1623 Q603 8-729-100-66 2SC1623 Q604 8-729-100-66 2SC1623 -Ref. No. FL-46 BOARD: 2000 series-



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PS-278 (POWER SUPPLY) SCHEMATIC DIAGRAM -Ref. No. PS-278 BOARD: 9000 series-15 13 14 9 10 11 12 8 PS-278 BOARD F2 A SW REG | HEATER 5.7V(-)
| 2 | HEATER 5.7V(+)
| 3 | OND |
| 4 | UN-30V |
| 5 | POWER CONT TO FL-46 BOARD WOO! (See page 188.) 815 R89. IESB R28 68k 1 % : M Λ 1 UN 15V (NC) 2 GND (0) W002 3 TIMER ONLINE(NC) (See page 138.) IC I SW REG TO DS - 55 Board Wooi (See page 138.) R013E583 11 GND (E) 12 GND (E) Λ IC5 P**Q**05RF21 IC6 IC 6 M5F79M05L Note: Note: The components identified by mark A or dotted line with mark are critical for safety. Les composants identifiés par une marque 🐧 sont critiques pour la sécurité.

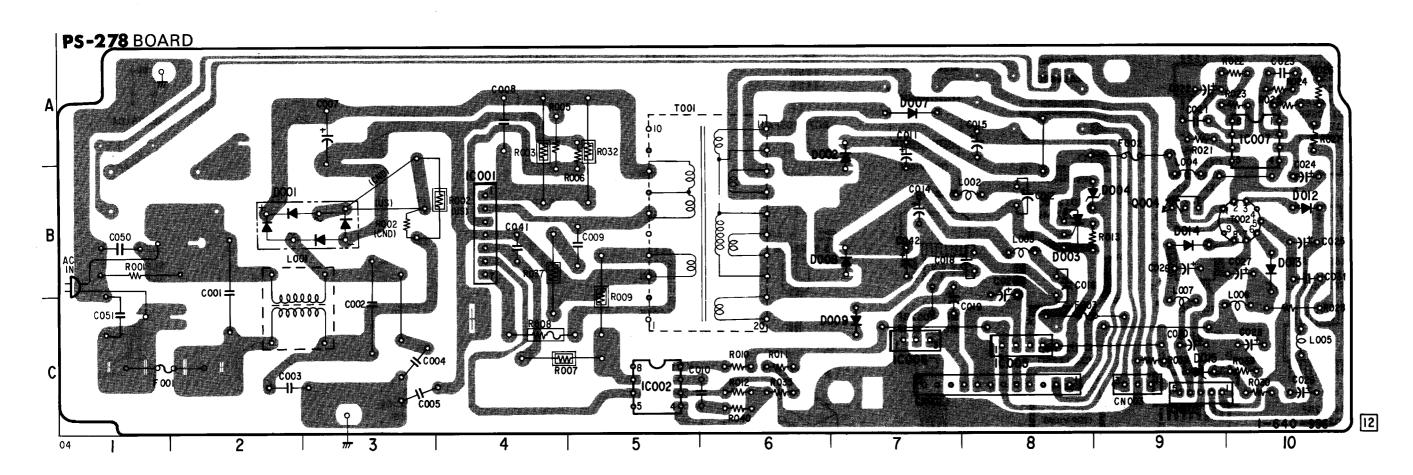
Ne les remplacer que par une pièce portant le numéro spécifié.

Replace only with part number specified.

no mark : E-E mode

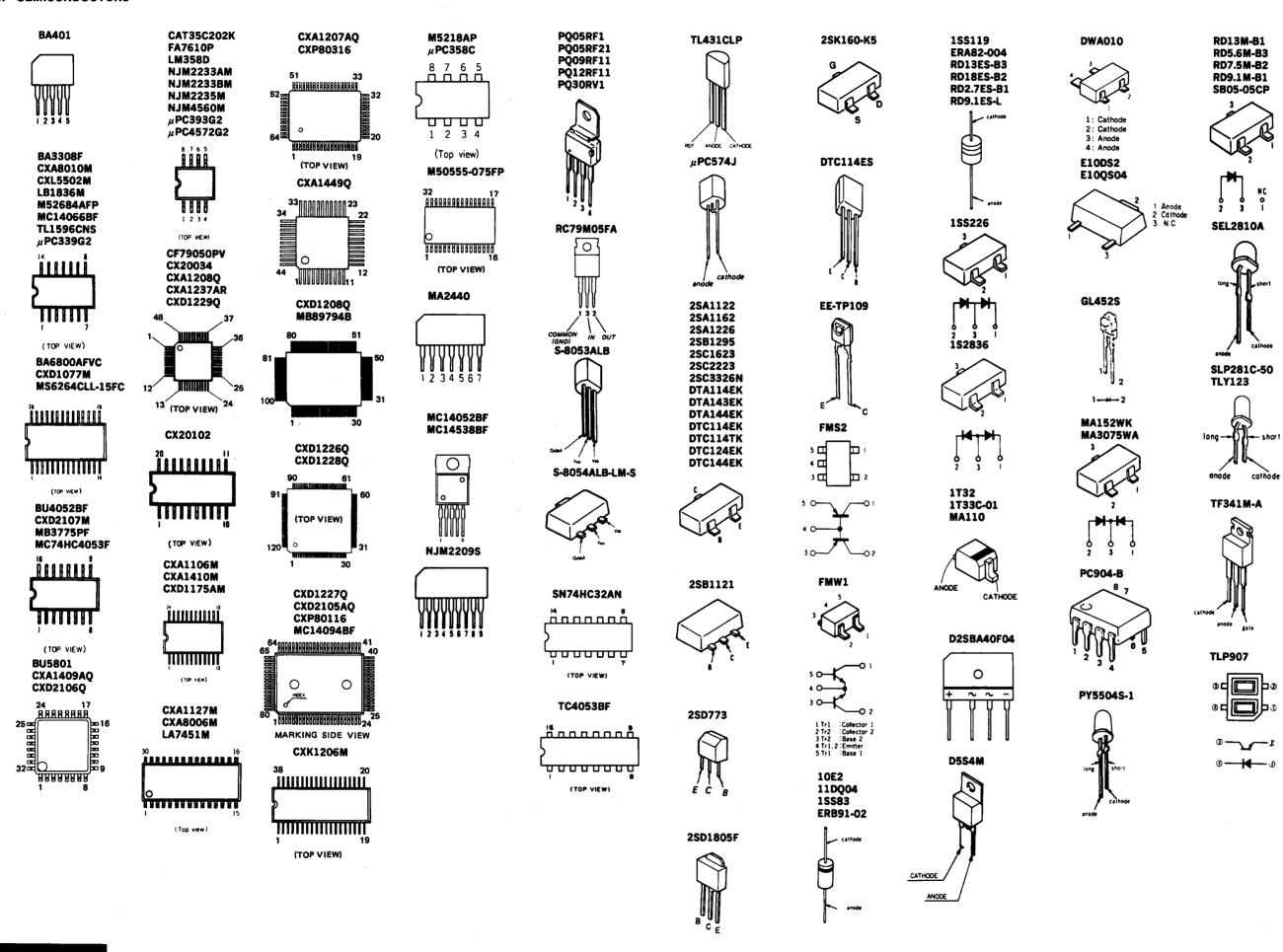
PS-278 (POWER SUPPLY) PRINTED WIRING BOARD

-Ref. No. PS-278 BOARD: 9000 series-



```
PS-278 BOARD
D001 B-2
D002 A-7
D003 B-8
D004 B-8
D007 A-7
D008 B-7
D009 C-7
D012 B-10
D013 B-10
D014 B-9
D015 C-9
                                   < DIODE >
           B-2
A-7
B-8
B-8
A-7
B-7
C-7
B-10
B-10
B-9
C-9
                                    D001 8-719-510-67 D2SBA40F04
                                    D002 8-719-500-70 D5S4M
                                    D003 8-719-304-50 TF341M-A
                                   D004 8-719-110-37 RD13ES-B3
                                    D007 8-719-941-74 ERB91-02
                                   D008 8-719-500-70 D5S4M
                                    D009 8-719-913-44 ERA82-004
                                   D012 8-719-913-44 ERA82-004
D013 8-719-901-83 ISS83
IC001
IC002
IC005
IC006
IC007
           B-4
C-5
C-8
C-7
A-10
                                   D014 8-719-901-83 1SS83
D015 8-719-121-24 RD9.1ES-L
                                    < 10 >
                                   IC001 8-759-513-69 MA2440 (N)
IC002 8-719-946-76 PC904-B
IC005 8-759-513-71 P005RF21
Q004 B-9
                                   IC006 8-759-982-52 RC79M05FA
IC007 8-759-990-33 FA7610P
                                   < TRANSISTOR >
Q004 8-729-824-22 2SD1805F
```

5-3. SEMICONDUCTORS



SECTION 6 EXPLODED VIEWS

NOTE:

22

3-742-541-12 BUTTON (A), CONTROL

- The mechanical parts with no reference number in the exploded views are not supp-
- Items marked "*" are not stocked since they are seldom required for routine ser-vice. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some differences from the origi-
- Color Indication of Appearance Parts Example:

KNOB, BALANCE (WHITE)...(RED)

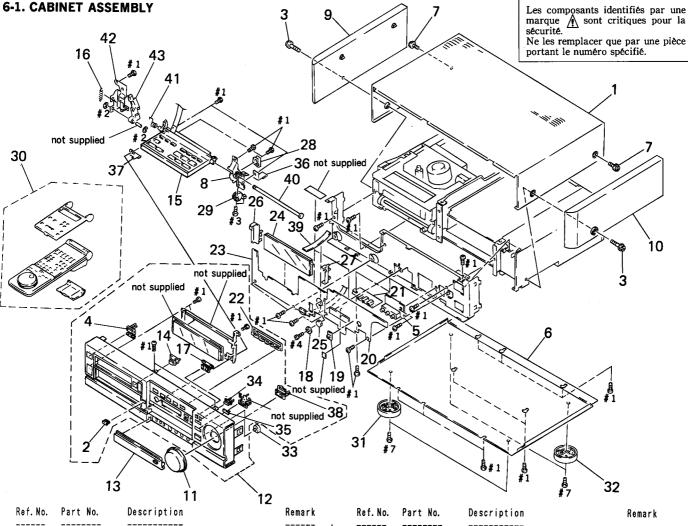
Parts Color Cabinet's Color

Hardware (# mark) list is given in the last of this parts list.

The components identified by mark nor dotted line with mark nare critical for safety. Replace only with part number

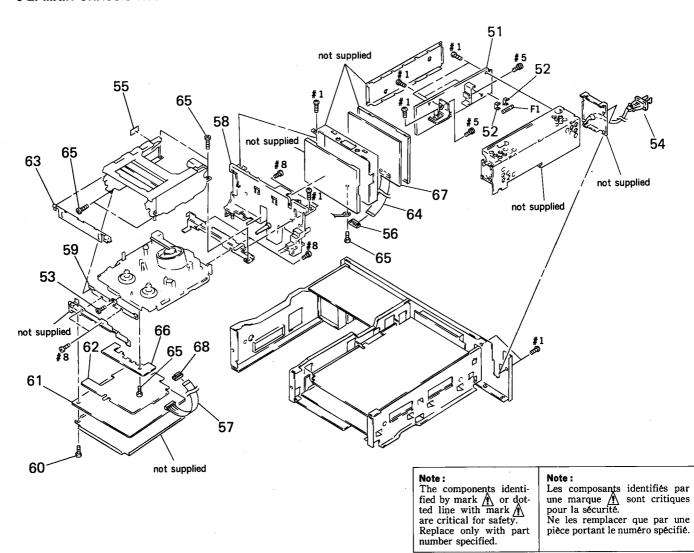
specified.

Les composants identifiés par une marque A sont critiques pour la



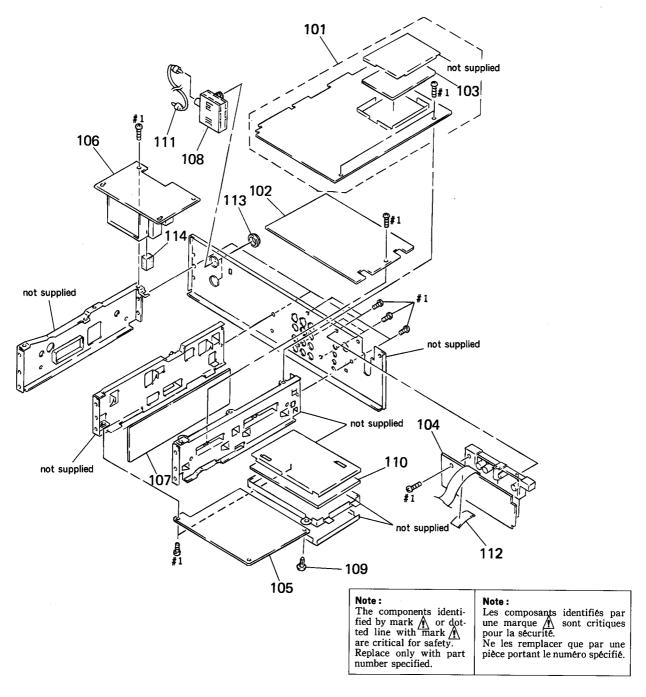
No 1. No.	1 21 (140.	Description	nemark	Rel. NO.	rart NO.	Description	Kemar
1	X-3941-414-1	CASE ASSY, UPPER		* 23	A-7063-048-A	FL-46 BOARD, COMPLETE	
2	3-742-518-11	BUTTON, DOOR RELEASE		24		INDICATOR TUBE, FLUORESCEN	IT
3		SCREW (3), SIDE WOOD		25	3-731-123-01	BASE, VOLUME	-
4	3-742-536-11	BUTTON, POWER		* 26		HOLDER (LEFT), INDICATION	TUBE
* 5	A-7063-053-A	FJ-12 BOARD, COMPLETE		* 27		HOLDER (RIGHT), INDICATION	
* 6	3-742-559-01	PLATE, BOTTOM		28	3-742-513-01	SPRING, LEAF	
7	3-710-901-11	SCREW. TAPPING		29	3-721-204-11		
* 8	3-742-550-02	BRACKET (RIGHT), DOOR		30	1-693-039-11	REMOTE COMMANDER (RMT-V120)
9	X-3941-562-1	PANEL (L) ASSY, SIDE		31	3-940-667-21	FOOT	
10	X-3941-563-1	PANEL (R) ASSY, SIDE		32	3-940-667-01	FOOT	
11	X-3742-514-1	DIAL BLOCK ASSY		33		RES, VAR, CARBON 10K (SHUT	TLE)
12	X-3941-413-1	PANEL ASSY (U), FRONT		34	3-944-231-11	BUTTON (F), CONTROL	
13	X-3742-512-1	DOOR ASSY, JACK	İ	35	3-944-235-01	BUTTON (G), CONTROL	
14	3-742-544-11	BUTTON, EJECT		* 36	3-742-574-01	PLATE (R), GROUND, DOOR	
15	1-466-292-51	SWITCH BLOCK, CONTROL		* 37	3-742-575-01	PLATE (L), GROUND, DOOR	
16	3-571-823-00	SPRING, TENSION		38	3-742-537-31	BUTTON (D). CONTROL	
17	3-742-538-01	BUTTON (B), CONTROL		* 39	3-944-127-01	COVER, FL	
18	3-742-501-01	KNOB, HP		40	3-742-523-01	SHAFT, DOOR	
19	3-742-502-01	KNOB, SLIDE		41	3-742-522-01	SPRING	
* 20		FR-65 BOARD, COMPLETE		* 42	X-3742-511-1	BRACKET (L) BLOCK ASSY, DO	OR
* 21	A-7063-051-A	MC-79 BOARD, COMPLETE		43	3-742-534-01	ARM, DOOR LOCK	
			1				

6-2. MAIN CHASSIS ASSEMBLY



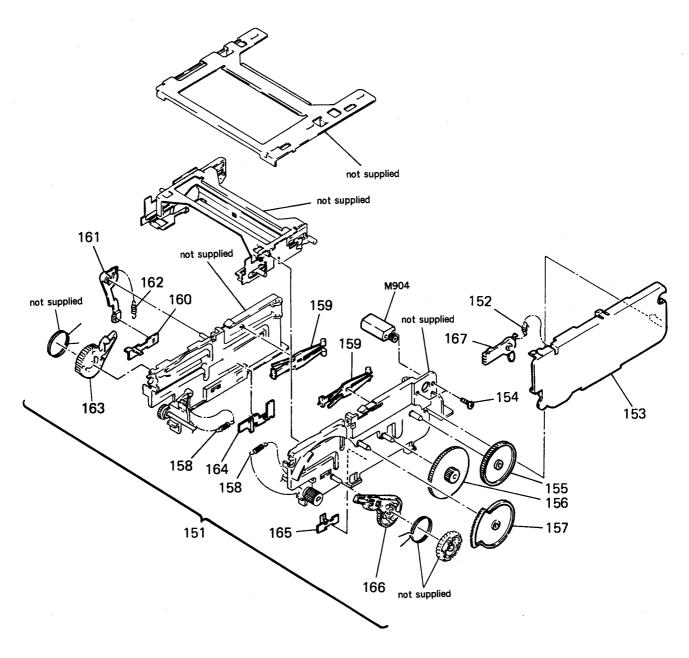
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 51 * 51 * 52 53 <u>A.</u> 54	A-7063-176-A 1-533-183-11 3-732-816-01	PS-278 BOARD, COMPLETE (US) PS-278 BOARD, COMPLETE (Canad HOLDER, FUSE SCREW, STEP CORD, POWER	ian)	60 * 61 * 62 63 64	A-7062-572-A 3-944-128-01 3-738-312-41	SCREW (M2X6), TAPPING, P3 CM-32 BOARD, COMPLETE COVER, DRUM WINDOW, CASSETTE COMPARTMENT FP-419 FLEXIBLE BOARD	
* 55 56 57 * 58 * 59	1-640-971-11 3-944-236-01	CONNECTOR, FPC (TRANSLATION) 13 FP-460 FLEXIBLE BOARD	P	65 * 66 * 67 68 A. F1	A-7062-575-A A-7062-573-A 1-569-346-11	SCREW (2X4.5), TAPPING UC-8 BOARD, COMPLETE RP-116 BOARD, COMPLETE CONNECTOR, FPC (TRANSLATION) 108 FUSE, GLASS TUBE	>

6-3. MAIN BOARD ASSEMBLY



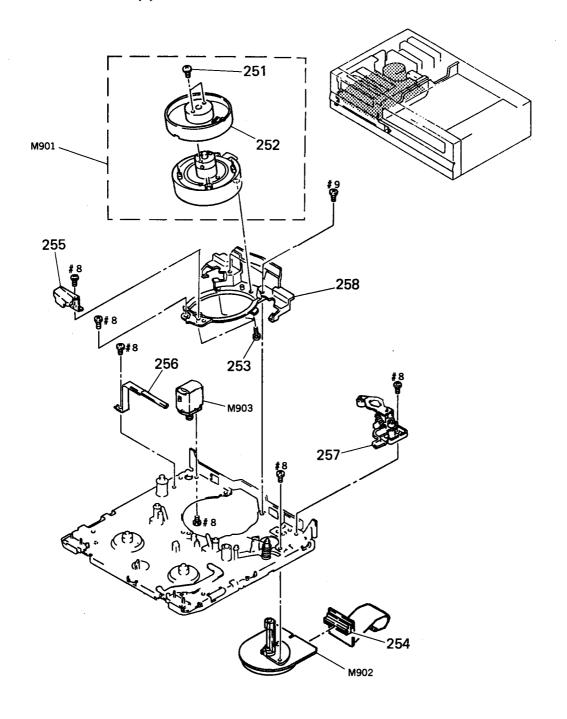
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* 101	A-7063-141-A	VI-104 BOARD, COMPLETE		<u></u> 1 08	1-466-645-11	MODULATOR, RF (RFU-1040)	
* 102	A-7063-052-A	PC-56 BOARD, COMPLETE	1	109	3-646-090-11	RIVET, NYLON	
* 103	A-7062-589-A	CD-64 BOARD, COMPLETE		* 110	A-7063-055-A	DI-46 BOARD, COMPLETE	
* 104	A-7063-058-A	RJ-25 BOARD, COMPLETE		111	1-558-924-41	CABLE, PIN	
* 105	A-7063-054-A	DS-55 BOARD, COMPLETE		* 112	3-945-536-01	COVER, RJ	
* 106	A-7063-050-A	TU-100 BOARD. COMPLETE		113	3-682-691-00	NUT. WASHER HEXAGON	
* 107	A-7063-056-A	IN-42 BOARD, COMPLETE		* 114		CUSHION, RUBBER	

6-4. FL CASSETTE COMPARTMENT ASSEMBLY

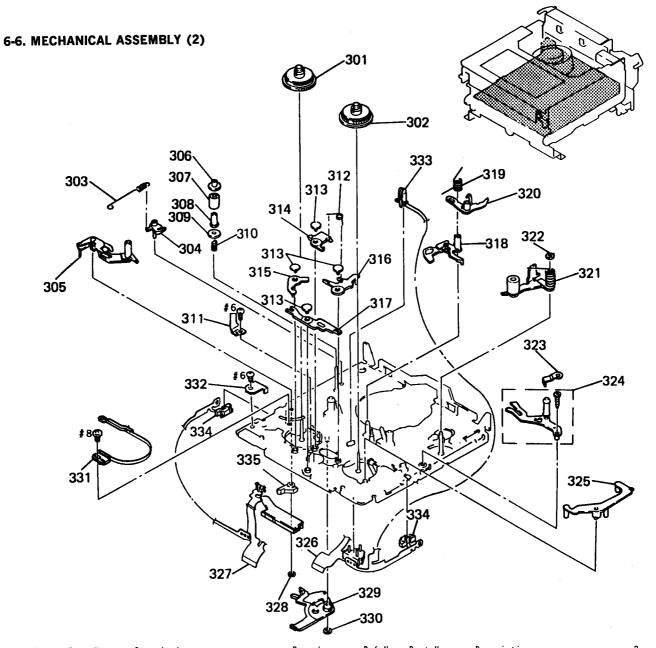


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
				1			
* 151	A-7091-647-A	CASSETTE COMPARTMENT ASSY, FL		160	3-731-189-01	SLIDER, LOCK	
152	3-731-175-02	SPRING, TENSION		161	3-731-188-01	ARM LOCK, DRIVING	
153	3-732-804-03	COVER, GEAR		162	3-731-174-01	SPRING, TENSION	
154	3-730-141-01	SCREW (PSW) (2X4)		163	X-3731-111-1	ARM (LEFT) ASSY, DRIVING	
155	3-731-182-01	GEAR (B), DECELERATION		164	X-3726-867-1	PRISM (LEFT) ASSY	
156	3-731-181-01	GEAR (A), DECELERATION		165	X-3726-866-1	PRISM (RIGHT) ASSY	
157	3-731-192-01	GEAR. MIDWAY		166	X-3731-109-2	ARM (RIGHT) ASSY, DRIVING	
158	3-731-176-02	SPRING. TENSION		167	3-731-185-01	LINK, SWITCHING, DOOR	
159	3-731-184-02	HOLDER LOCK		M904	X-3731-108-1	FL MOTOR ASSY (FRONT LOADING)	

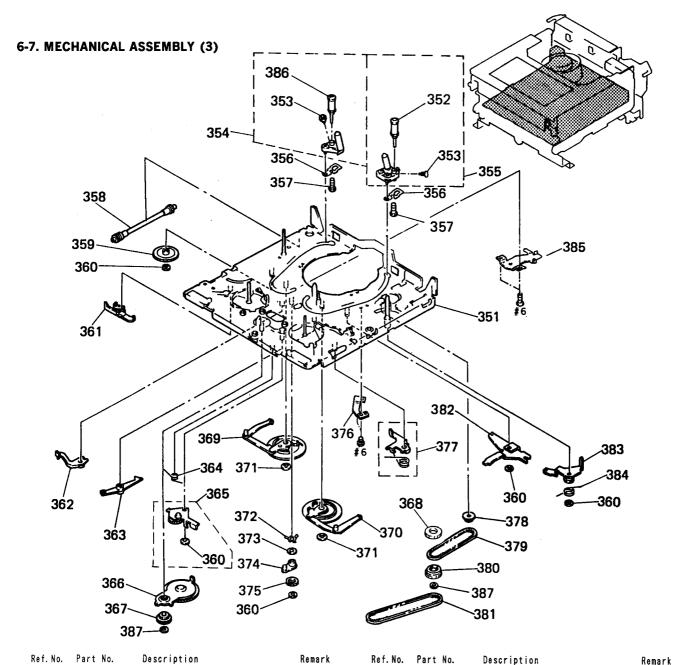
6-5. MECHANICAL ASSEMBLY (1)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	3-727-847-01	SCREW (M2X4), P1		257	A-7040-207-A	ROLLER BLOCK ASSY, HC	
252	A-7049-481-A	DRUM ASSY, UPPER, ROTARY	(DGR-87-R)	258	X-3686-482-5	BASE ASSY, DRUM	
253	3-686-493-01	SCREW (M2X5), P1		M901	A-7048-547-A	DRUM BLOCK ASSY (DGU-87A-R)	
* 254	A-7052-574-A	CC-62 BOARD, COMPLETE		M902		MOTOR, DC U-22A (CAPSTAN)	
255	3-728-868-01	GUARD, GUIDE		M903		MOTOR ASSY, THREADING (LOADING	3)



Ref. No.	Part No.	Description	Remark		Part No.	Description	Remark
301	X-3728-851-1	TABLE ASSY, REEL, S		319	3-726-864-01	SPRING (RK), TORSION	
302	X-3728-855-1	TABLE ASSY, REEL, T		320	3-728-852-02	ARM, RK STOPPER	
303	3-736-414-01	SPRING, TENSION	1	321	A-7040-219-A	ARM BLOCK ASSY, PINCH	
304	3-728-855-03	ARM, ADJUSTMENT	•	322	3-669-465-00	WASHER (1.5), STOPPER	
305	X-3728-867-1	ARM ASSY (S), TENSION REGULATOR	₹	323	3-728-808-01	SPRING, LEAF	
306	3-726-884-01	FLANGE, UPPER, TG2		324	X-3728-869-1	ARM ASSY, TG7	
307	3-726-883-01	ROLLER, TG2		325	3-728-848-01	ARM, LB RELEASE	
308	3-726-885-01	SLEEVE, TG2		326	1-628-061-12	FP-90 FLEXIBLE BOARD	
309	3-726-882-02	FLANGE, LOWER, TG2		327	1-628-060-12	FP-89 FLEXIBLE BOARD	
310	3-726-886-01	SPRING, COMPRESSION		328	3-321-393-11	WASHER, STOPPER	
311	3-726-848-01	RETAINER, TL		329	X-3728-863-1	LEVER ASSY, SW	
312	3-726-866-01	SPRING (ST), TORSION		330	3-726-829-01	WASHER, STOPPER	
313	3-726-858-01	PIN, SHAFT RETAINER		331	X-3728-859-1	BAND ASSY, TENSION REGULATOR	
314	3-728-849-01	BRAKE, S		332	3-730-125-01	RETAINER, SW	
315	3-726-852-01	BRAKE, LB		333	3-728-837-01	HOLDER, LED	
316	3-728-850-01	BRAKE, T		334	3-728-869-02	HOLDER, SENSOR	
317	3-726-853-01	LEVER, LB		335	X-3728-857-1	STOPPER ASSY, TENSION REGULATO)R
318	3-728-875-01	STOPPER, RK	İ				



NE1. NO.		Description	Newark	Nel. NO.	rait No.	Description	Kemark
351	X-3728-862-1	CHASSIS ASSY, MECHANICAL		370	X-3728-843-1	GEAR (RIGHT) ASSY, DRIVE	
352	X-3728-808-4	ROLLER ASSY (U) (PLATING), GUIDE		371		WASHER (1.5), STOPPER	
353		SCREW (M1. 4X2) (STEP), HEAD		372		SPRING, LEAF	
354	A-7040-204-A	COASTER (LEFT) BLOCK ASSY		373	3-701-436-21	WASHER, POLYEHTHYLENE	
355	A-7040-216-A	COASTER (RIGHT) BLOCK ASSY (MIP)		374	3-726-857-03		
356	3-736-485-01	SPRING, LEAF, COSTER		375	3-726-856-04	GEAR, UL	
357	3-726-830-01	SCREW (M1. 4X4) (THREE LOCK)		* 376	3-726-805-01	REINFORCEMENT (TT)	
358	X-3940-276-2	WORM ASSY		377	X-3726-808-3	BRAKE ASSY, TS	
359	3-744-109-01	GEAR, WHEEL		378	X-3726-805-1	GEAR ASSY, JOINT	
360	3-726-829-01	WASHER, STOPPER		379	3-728-866-11	BELT (S), TIMING	
361	3-728-842-01	LEVER, EJECT		380	3-741-196-02	PULLEY (LOWER), BELT MIDWAY	
362	3-728-851-01	BRAKE, UL	l	381		BELT (L), TIMING	
363	3-726-854-01	ARM, BRAKE RELEASE		382		LEVER, LOADING	
364	3-726-865-01	SPRING (LB), TORSION		383	X-3940-279-1	ARM ASSY, PINCH SUB	
365	A-7040-225-A	GEAR BLOCK ASSY (N). LB		384	3-726-895-01	SPRING	
366	X-3728-866-1	GEAR ASSY, RK		385	X-3940-278-1	REINFORCEMENT (SS) ASSY	
367	X-3728-858-2	GEAR ASSY, RC		386		ROLLER ASSY ((U)-NB), GUIDE	
368	X-3726-813-4	PULLEY (UPPER) ASSY, MIDWAY	1	387		WASHER, STOPPER	
369	X-3728-842-1	GEAR (LEFT) ASSY, DRIVE					

SECTION 7 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS uF: μF

RESISTORS

All resistors are in ohms METAL: Metal-film resistor METAL OXIDE: Metal Oxide-film

resistor

F: nonflammable COILS

- uH: µH SEMICONDUCTORS

In each case, u: μ, for example: uA...: μA..., uPA...; μPA..., uPB...: μPB..., uPC...: μPC..., uPD...: μPD....

When indicating parts by reference number, please include the board

The components identified by mark or dotted line with mark are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			mark	Ref. No.	Part No.	Description			emark
*	A-7052-574-A	CC-62 BOARD, CO	MPLETE (Ref. N		Series)	C614	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
•		**********				C615	1-164-232-11	CERAMIC CHIP	0.01uF		50V
						C616	1-164-232-11	CERAMIC CHIP	0.01uF		50V
	1-690-373-11	CABLE, FLAT (1	. OMM) (15 CC	ORE)		C617	1-124-589-11	ELECT	47 u F	20%	16V
		(1	, , , , , , , , , , , , , , , , , , , ,	-··- ,		C618		CERAMIC CHIP	0. 1uF	10%	25V
		< CONNECTOR >									
					İ	C619	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V
* CN201	1-562-880-21	CONNECTOR, CAR	D EDGE 15P			C620	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V
		CONNECTOR, FPC		15P		C621	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V
		********			*****	C622	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V
						C623	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V
	A-7062-589-A	CD-64 BOARD, CO	MPLETE (Ref. I	No. 6000	Series)						
		**********	*****			C624	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V
						C625	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V
		< CAPACITOR >				C626	1-124-589-11	ELECT	47uF	20%	16 V
						C627	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C001	1-164-346-11	CERAMIC CHIP	1uF		167	C628	1-124-589-11		47uF	20%	16V
C002	1-164-232-11	CERAMIC CHIP	0. 01uF		50V						
C003	1-164-232-11	CERAMIC CHIP	0. 01uF		50V	C629	1-164-232-11	CERAMIC CHIP	0. 01uF		504
C004	1-164-232-11	CERAMIC CHIP	0. 01uF		50V	C630	1-126-163-11	ELECT	4. 7uF	20%	50V
C005	1-126-162-11	ELECT	3. 3uF	20%	50V	C631	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
						C632	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C006	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V	C633	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C007	1-164-232-11	CERAMIC CHIP	0. 01uF		50V						
C008	1-126-162-11	ELECT	3. 3uF	20%	50V	C634	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C009	1-126-162-11	ELECT	3. 3uF	20%	50V	C640	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V
C601	1-124-589-11	ELECT	47uF	20%	16V	C641	1-163-109-00	CERAMIC CHIP	47 P F	5%	50V
						C642	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C602	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V	C643	1-163-109-00	CERAMIC CHIP	47PF	5%	50 V
C603	1-126-163-11	ELECT	4. 7uF	20%	50V						
C604	1-124-589-11	ELECT	47uF	20%	16V	C644	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C606	1-124-589-11	ELECT	47uF	20%	16V	C645	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C607	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V	C646	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
						C647	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C609		CERAMIC CHIP	0. 1uF	10%	25V	C648	1-126-157-11	I ELECT	10uF	20%	16V
C610	1-164-232-11	CERAMIC CHIP	0. 01uF		50V						
C611	1-124-589-11	ELECT	47uF	2.0%	16V	C649	1-126-154-11	ELECT	47uF	20%	6.3V
C612	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V						
C613	1-164-232-11	CERAMIC CHIP	0. 01uF		-50V						

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description			Remark
		< DIODE >		R606	1-216-013-00	METAL CHIP	33	5%	1/10W
				R607	1-216-041-00		470	5%	1/10W
D601	8-719-400-18	DIODE MA152WK		R608	1-216-053-00		1. 5K		1/10W
				R609	1-216-025-00		100	5%	1/10W
		< INDUCTOR >		R610	1-216-049-00		1 K	5%	1/10W
				1.070	1 210 040 00	METAL OIIII		J/0	1/ 10#
F8601	1-412-364-11	INDUCTOR OUR		R611	1-216-049-00	METAL CHIP	1 K	5%	1/10W
	1-412-364-11			R612	1-216-053-00		1. 5K		1/10W
	1-412-364-11			R613	1-216-049-00		1. JK	5%	
	. ,,,,			R614	1-216-049-00		1 K		1/10W
		< FILTER >		R619	1-216-049-00		1 K	5%	1/10W
				1 "013	1 210 049 00	MLIKE GIIIF	łA	5%	1/10W
FI 001	1-239-236-11	ENCAPSULATED COMPONENT		R620	1-216-049-00	METAL CUID	1 1/	EN/	1 /1014
		ENCAPSULATED COMPONENT		R621	1-216-049-00		1 K	5%	1/10W
		ENCAPSULATED COMPONENT		R622			1 K	5%	1/10W
		FILTER, LOW PASS		R623	1-216-049-00 1-216-025-00		1K	5%	1/10W
		FILTER, BAND PASS		R624			100	5%	1/10W
1 2000	7 200 320 11	FILTER, BAND TAGO		N024	1-216-033-00	METAL CHIP	220	5%	1/10W
		< IC >		R625	1-216-061-00	METAL OUTD	2 24	ER/	1 /1011
		. 10 /	,	R626	1-216-061-00		3. 3K		1/10W
10001	8-752-332-68	IC CXL5502M		R627	1-216-033-00		3. 3K		1/10W
	8-759-506-97			R628			220	5%	1/10W
	8-752-334-55			j.	1-216-065-00		4. 7K		1/10W
	8-752-342-61			R629	1-216-035-00	METAL CHIP	270	5%	1/10W
10000	0 102 042 01	TO ONDETOUNA		Dean	1 010 001 00	METAL ADID			
		< COIL >		R630	1-216-081-00		22K	5%	1/10W
		(001L)		R631	1-216-081-00		22K	5%	1/10W
L001	1-408-970-21	INDUCTOR 10uH		R633	1-216-081-00		22K	5%	1/10W
L002	1-408-978-21			R635	1-216-081-00		22K	5%	1/10W
2002	1 400 010 21	1110001011		1000	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< TRANSISTOR >		R638	1-216-295-00	METAL CUID	٥	EN/	1 /1 0111
				R639	1-216-295-00			5% 5%	1/10W
Q601	8-729-100-66	TRANSISTOR 2SC1623		R641	1-216-121-00		-	5%	1/10W
0602	8-729-216-22			R643	1-216-295-00			5% 5%	1/10W
0603	8-729-100-66			R645	1-216-295-00	METAL CHIP		5%	1/10W
0604	8-729-100-66			11040	7 210 233 00	MCIAL OILL	U	J76	1/10W
0605	8-729-216-22			R646	1-216-041-00	METAL CUID	470	E0/	1 /10₩
		24,,,,,2		R647	1-216-049-00			5% 5%	1/10W
Q606	8-729-100-66	TRANSISTOR 2SC1623		R648	1-216-049-00			5%	1/10W
Q607	8-729-216-22			R649	1-216-045-00			5%	1/10W
Q609	8-729-216-22			R650	1-216-041-00			5%	1/10W
Q610	8-729-216-22			1.000	1 210 041 00	MEINE OIIII	410	J76	1/10W
Q611	8-729-216-22			j		< VARIABLE RESI	CTAD \		
		20111172				VANIABLE NEST	JION /		
Q612	8-729-100-66	TRANSISTOR 2SC1623		RV601	1-228-003-00	RES, ADJ, METAL	4 7V		
Q613	8-729-100-66			RV602	1-228-003-00	RES, ADJ, METAL	4. IN		
		200.020		"""	1 220 330 00	NEO, ADO, METAL	4. / K		
		< RESISTOR >				< PIN >			
						V 1111 /			
R001	1-216-121-00	METAL CHIP 1M 5	% 1/10W	W601	1-566-095-11	PIN, BOARD TO BO	ARD SP		
R003	1-216-095-00		% 1/10W	W602	1-586-095-11	PIN, BOARD TO BO	JVBU 80		
R004	1-216-073-00		% 1/10W		*****	********	MANANA MUND OL	*****	******
R601	1-216-073-00		% 1/10W		· · · · · · · · · · · · · · · · · · ·	*********	r T T T T T T T T	ጥጥ ሞች ⁷	r ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ ተ
R602	1-216-081-00		% 1/10W						
	= : · · · · · · ·	22n V	1, 1 4 11						
R603	1-216-033-00	METAL CHIP 220 5	% 1/10W						
R604	1-216-041-00		% 1/10W						
R605	1-216-043-00		% 1/10W						
		·		•					

CM-32

Ref. No.	Part No.	Description			emark ,	Ref. No.	Part No.	Description			emark
*	A-7062-572-A	CM-32 BOARD, COM	APLETE (Ref. No.		1	C407	1-162-638-11	CERAMIC CHIP	1uF		16V
		*********	*****			C408	1-162-638-11	CERAMIC CHIP	1 u F		16 V
					.	C409	1-126-154-11	ELECT	47uF	20%	6.3V
	1-574-420-11	WIRE, FLAT TYPE	E (30P)			C410	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
	1-575-388-11	CABLE, FLAT (1.	OMM PITCH) 9F	•		C411	1-162-638-11	CERAMIC CHIP	1uF		16V
		< CAPACITOR >				C412	1-162-638-11	CERAMIC CHIP	1uF		16V
						C413	1-126-154-11	ELECT	47uF	20%	6.3V
C301	1-126-157-11	ELECT	10uF	20%	16V	C414	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50 V
C302	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	C415	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C303	1-126-157-11	ELECT	10uF	20%	16V	C416	1-126-163-11	ELECT	4. 7uF	20%	50 V
C304	1-163-038-00	CERAMIC CHIP	0. 1uF		25V						
C305	1-163-025-11	CERAMIC CHIP	0. 001uF		50V	C417	1-163-035-00	CERAMIC CHIP	0. 047uF		50V
						C418	1-126-160-11	ELECT	1uF	20%	50V
C306	1-163-025-11	CERAMIC CHIP	0. 001uF		50V	C419		CERAMIC CHIP	0. 0033uF	10%	50V
C307		CERAMIC CHIP	0. 047uF		50V	C420		CERAMIC CHIP	0.0033uF	10%	50V
C308		CERAMIC CHIP	0. 047uF		50V	C424		CERAMIC CHIP	0. 01uF		50V
C309		CERAMIC CHIP	0. 01uF		50V	0.42.4	1 104 202 11	ocimino oim	0. 0. 0.		•••
C310		CERAMIC CHIP	0. 0047uF	5%	50V	C425	1-164-330-21	CERAMIC CHIP	0. 22uF	10%	16V
0010	1-100-017-00	OLIVANIO OIIII	0. 004101	070	"	C426		CERAMIC CHIP	0. 22uf	10%	16V
0011	1 16410011	CERAMIC CHIP	0. 0033uF	10%	50V	C428	1-126-153-11		22uF	20%	6. 3V
C311			330PF	5%	50V	C420		CERAMIC CHIP	0. 22uF	10%	
C312		CERAMIC CHIP		D76							16V
C313		CERAMIC CHIP	0.01uF	1.00/	50V	C431	1-104-330-21	CERAMIC CHIP	0. 22uF	10%	16V
C314		CERAMIC CHIP	0. 047uF	10%	25V	0.400	1 104 000 01	0504440 0440	0.00.5	1.01/	401
C315	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	C432		CERAMIC CHIP	0. 22uF	10%	16V
						C433		CERAMIC CHIP	0. 22uF	10%	16V
C316		CERAMIC CHIP	0. 1uF		25V	C434		CERAMIC CHIP	0. 047uF		50 V
C317		CERAMIC CHIP	0. 001uF	10%	50V	C436		CERAMIC CHIP	0. 1uF		25V
C318		CERAMIC CHIP	33PF	5%	50V	C437	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C319		CERAMIC CHIP	33PF	5%	50 V						
C320	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	C440		CERAMIC CHIP	0. 047uF		50V
					Ì	C442		CERAMIC CHIP	0. 0047uF	5%	50V
C321	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V	C447	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C322	1-163-109-00	CERAMIC CHIP	47PF	5%	50V	C448	1-126-160-11	ELECT	1uF	20%	50V
C323	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	500	C501	1-130-495-00	MYLAR	0. 1uF	5%	50V
C324	1-163-101-00	CERAMIC CHIP	22PF	5%	50V						
C325	1-163-035-00	CERAMIC CHIP	0.047uF		50V	C502	1-163-077-00	CERAMIC CHIP	0. 1uF	10%	25V
			•			C503	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C326	1-163-031-11	CERAMIC CHIP	0. 01uF		·50V	C504	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50 V
C327	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	C505	1-163-035-00	CERAMIC CHIP	0. 047uF		50V
C328	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	C506	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C329	1-163-005-11	CERAMIC CHIP	470PF	10%	50V						
C330		CERAMIC CHIP	0.047uF	10%	25V	C507	1-163-077-00	CERAMIC CHIP	0. 1uF	10%	25V
••••						C508		CERAMIC CHIP	0. 047uF		50V
C331	1-163-035-00	CERAMIC CHIP	0. 047uF		50V	C509		CERAMIC CHIP	180PF	5%	50V
C333		CERAMIC CHIP	0. 01uF		50V	C510		CERAMIC CHIP	0. 1uF	10%	25V
C334	1-126-163-11		4. 7uF	20%	50V	C511		CERAMIC CHIP	22PF	5%	50V
C336		CERAMIC CHIP	0. 01uF	20/0	50V	0011	1 100 101 00	OLIMINO OIII	2211	0,0	301
C337	1-126-162-11		3. 3uF	20%	50V	C512	1_163_101_00	CERAMIC CHIP	22PF	5%	50V
0331	1-120-102-11	LLLVI	J. 541	20/4	301	C512					
0000	1 169 000 11	CEDAMIC OUID	0. 0047uF		50V	i i	1-127-491-00	ELECT (SOLID)	22uF	20%	10V
C338		CERAMIC CHIP				C514			47uF	20%	16V
C339		CERAMIC CHIP	0. 0047uF		50V	C515		ELECT (SOLID)	22uF	20%	20V
C351		CERAMIC CHIP	0. 01uF	F#*	50V	C516	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
C401		CERAMIC CHIP	12PF	5%	50V			APRILL			
C402	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	C517		CERAMIC CHIP	22PF	5%	50V
						C518		ELECT (SOLID)	22uF	20%	10V
C404	1-126-154-11		47uF	20%	6. 3V	C520	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C405	1-163-035-00	CERAMIC CHIP	0. 047uF		50V						

Ref. No.	Part No.	Description	Remark		Part No.	Description			Remark
		< CONNECTOR >				< TRANSISTOR	>		
CN301	1-566-542-31	CONNECTOR, FPC (NON ZIF) 10	P	Q301	8-729-216-22	DOTOLOMAGE	2SA1162		
		PIN, CONNECTOR (PC BOARD) 2		0302	8-729-100-66		2SC1623		
CN303		CONNECTOR, FPC/FFC 15P	•	Q303	8-729-216-22		2SA1162		
		CONNECTOR 3P, MALE		Q304	8-729-100-66		2SC1623		
		CONNECTOR 10P, MALE		0305	8-729-216-22		2SA1162		
				1	0 120 210 22	111/11010101	2001102		
		CONNECTOR, FPC/FFC 9P		Q306	8-729-100-66	TRANSISTOR	2SC1623		
		CONNECTOR, FLEXIBLE 30P		0308	8-729-901-01	TRANSISTOR	DTC144EK		
		CONNECTOR. FPC/FFC 14P		0403	8-729-901-06	TRANSISTOR	DTA144EK		
* CN406	1-566-181-61	PIN, CONNECTOR (PC BOARD) 2	Р	0404	8-729-901-06	TRANSISTOR	DTA144EK		
		A DIADE		Q405	8-729-901-06	TRANSISTOR	DTA144EK		
		< DIODE >		0407	8-729-100-66	TDANCICTOD	1001612		
D401	8-719-400-18	DIODE MA152WK		0408			2SC1623		
D409	8-719-200-36			0408	8-729-901-01 8-729-904-04		DTC144EK		
D410	8-719-200-27			1			FMS2		
D413	8-719-400-18			0418	8-729-901-01		DTC144EK		
D413	8-719-400-18			Q501	8-729-901-01	IKAN21210K	DTC144EK		
				Q502	8-729-100-66	TRANSISTOR	2801623		
D464	8-719-400-18	DIODE MA152WK		Q503	8-729-805-25		2881121		
D466	8-719-400-18			Q504	8-729-100-66		2SC1623		
D501	8-719-938-75	DIODE SB05-05CP		Q505	8-729-805-25		2SB1121		
D502	8-719-938-75			Q506	8-729-901-01		DTC144EK		
D503	8-719-104-34	DIODE 1S2836					DIVITALK		
				Q507	8-729-901-06	TRANSISTOR	DTA144EK		
		< FERRITE BEAD >		Q508	8-729-901-01	TRANSISTOR	DTC144EK		
				Q509	8-729-100-66	TRANSISTOR	2SC1623		
		BEAD, FERRITE		Q510	8-729-100-66	TRANSISTOR	2SC1623		
		BEAD, FERRITE BEAD, FERRITE							
10400	1 343 230 11	DEAD, TERRITE				< RESISTOR >			
		< 10 >		R301	1-216-041-00	METAL CHIP	470	5%	1/10W
				R302	1-216-041-00	METAL CHIP	470	5%	1/10W
	8-752-050-54			R303	1-216-085-00	METAL CHIP	33K	5%	1/10W
	8-759-100-97			R304	1-216-081-00	METAL CHIP	22K	5%	1/10W
	8-752-834-12			R305	1-216-045-00	METAL CHIP	680	5%	1/10W
	8-759-823-94								
1C404	8-759-148-05	IC CXA8010M		R306	1-216-035-00		270	5%	1/10W
				R307	1-216-031-00		180	5%	1/10W
	8-759-990-55			R308	1-216-071-00	METAL CHIP	8. 2K	5%	1/10W
	8-759-805-06			R309	1-216-081-00		22K	5%	1/10W
	8-759-998-98			R310	1-216-081-00	METAL CHIP	22K	5%	1/10W
10002	8-759-945-17	IC MB3775PF		D211	1_216_060 00	METAL AUTO	6 NV	E0/	1 /1 0₩
		< COIL >		R311 R312	1-216-069-00		6. 8K		1/10W
				R313	1-216-073-00 1-216-121-00		10K	5%	1/10W
L301	1-407-169-XX	INDUCTOR 100uH		R314			1M	5%	1/10W
L302	1-408-987-21			R315	1-216-047-00 1-216-081-00			5%	1/10W
L401	1-408-978-21			NOTO	1-210-001-00	MLIAL UTIT	22K	5%	1/10W
L402	1-408-978-21			R316	1-216-061-00	METAL CUID	ע מי	E0/	1 /1 AW
L501	1-424-104-11			R317				5% Ew	1/10W
201	1 767 IVT II	ovie, onone loun		R318	1-216-061-00		3. 3K		1/10W
L502	1-424-106-11	COIL, CHOKE 47uH		R319	1-216-065-00 1-216-061-00		4. 7K		1/10W
L503	1-424-106-11		ļ	R320	1-216-061-00			5% 5%	1/10₩ 1/10₩
	100 11	TOTAL TIME		NUZV	1 210-001-00	MILIAL VIII	3. 3K	U76	1/10₩
				R321	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W

CM-32

Ref. No.	Part No.	Description	on 		Remark	Ref. No.	Part No.	Description			Remark
R322	1-216-085-00	METAL CHI	33K	5%	1/10W	R429	1-216-073-00	METAL CHIP	10K	5%	1/10W
R323	1-216-073-00	METAL CHI	P 10K	5%	1/10W	R443	1-216-113-00	METAL CHIP	470K	5%	1/10W
R325	1-216-049-00	METAL CHI	P. 1K	5%	1/10W	R444	1-216-113-00	METAL CHIP	470K	5%	1/10W
R326	1-216-019-00			5%	1/10W	R447	1-216-073-00	METAL CHIP	10K	5%	1/10W
R327	1-216-033-00			5%	1/10W	R448	1-216-073-00	METAL CHIP	10K	5%	1/10W
R328	1-216-083-00	METAL CHI	P 27K	5%	1/10W	R449	1-216-121-00	METAL CHIP	1M	5%	1/10W
R329	1-216-121-00	METAL CHI		5%	1/10W	R450	1-216-073-00	METAL CHIP	10K	5%	1/10W
R330	1-216-059-00	METAL CHI	P 2.7K	5%	1/10W	R452	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W
R331	1-216-055-00	METAL CHI.	P 1.8K	5%	1/10W	R454	1-216-037-00	METAL CHIP	330	5%	1/10W
R332	1-216-059-00	METAL CHI	P 2.7K	5%	1/10W	R456	1-216-097-00	METAL CHIP	100K	5%	1/10W
R335	1-216-073-00	METAL CHI		5%	1/10W	R457	1-216-121-00	METAL CHIP	1 M	5%	1/10W
R336	1-216-073-00	METAL CHI		5%	1/10W	R458	1-216-079-00	METAL CHIP	18K	5%	1/10W
R339	1-216-097-00	METAL CHI			1/10W	R462	1-216-295-00		0	5%	1/10W
R341	1-216-115-00	METAL CHI		5%	1/10W	R466	1-216-089-00	METAL CHIP	47K	5%	1/10W
R342	1-216-065-00	METAL CHI	P 4. 7K	5%	1/10W	R468	1-217-671-11	METAL CHIP	1	5%	1/10W
R343	1-216-295-00			5%	1/10W	R469	1-216-298-00		2. 2	5%	1/10W
R350	1-216-121-00			5%	1/10W	R470	1-216-298-00		2. 2	5%	1/10W
R351	1-216-073-00			5%	1/10W	R471	1-216-298-00		2. 2	5%	1/10W
R352	1-216-073-00			5%	1/10W	R472	1-217-671-11		1	5%	1/10W
R355	1-216-081-00	METAL CHI	P 22K	5%	1/10W	R473	1-217-671-11	METAL CHIP	1	5%	1/10W
R356	1-216-085-00			5%	1/10W	R474	1-217-671-11		1	5%	1/10W
R357	1-216-069-00				1/10W	R475	1-216-083-00		27K	5%	1/10W
R361	1-216-295-00			5%	1/10W	R476	1-216-083-00		27K	5%	1/10W
R368	1-216-295-00			5%	1/10W	R477	1-216-083-00		27K	5%	1/10W
R369	1-216-073-00	METAL CHI	P 10K	5%	1/10W	R478	1-216-113-00	METAL CHIP	470K	5%	1/10W
R401	1-216-043-00	METAL CHI	P 560	5%	1/10W	R479	1-216-113-00	METAL CHIP	470K	5%	1/10W
R402	1-216-061-00	METAL CHI	P 3.3K	5%	1/10W	R480	1-216-073-00	METAL CHIP	10K	5%	1/10W
R403	1-216-172-00	METAL CHI	P 82	5%	1/8W	R481	1-216-295-00	METAL CHIP	0	5%	1/10W
R404	1-216-065-00	METAL CHI	P 4.7K	5%	1/10W	R483	1-216-121-00	METAL CHIP	1M	5%	1/10W
R405	1-216-073-00	METAL CHI	P 10K	5%	1/10W	R484	1-216-121-00	METAL CHIP	1M	5%	1/10W
R406	1-216-073-00	METAL CHI	P 10K	5%	1/10W	R485	1-216-113-00	METAL CHIP	470K	5%	1/10W
R407	1-216-073-00	METAL CHI	P 10K	5%	1/10W	R486	1-216-113-00	METAL CHIP	470K	5%	1/10W
R408	1-216-073-00	METAL CHI	P 10K	5%	1/10W	R488	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W
R409	1-216-113-00	METAL CHI	P 470K	5%	1/10W	R489	1-216-073-00	METAL CHIP	10K	5%	1/10W
R410	1-216-099-00	METAL CHI	P 120K	5%	1/10W	R490	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R411	1-216-099-00				1/10W	R491	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R412	1-216-113-00				1/10W	R492	1-216-081-00		22K	5%	1/10W
R414	1-216-061-00				1/10W	R493	1-216-065-00		4. 7K	5%	1/10W
R415	1-216-073-00			5%	1/10W	R497	1-216-049-00		1 K	5%	1/10W
R416	1-216-065-00	METAL CHI	P 4.7K	5%	1/10W	R498	1-216-073-00	METAL CHIP	10K	5%	1/10W
R417	1-216-049-00			5%	1/10W	R499	1-216-295-00		0	5%	1/10W
R418	1-216-049-00			5%	1/10W	R501	1-216-089-00		47K	5%	1/10W
R419	1-216-049-00			5%	1/10W	R502	1-216-089-00		47K	5%	1/10W
R420	1-216-049-00			5%	1/10W	R503	1-216-097-00		100K	5%	1/10W
R421	1-216-073-00	METAL CHI	P 10K	5%	1/10W	R504	1-216-073-00	METAL CHIP	10K	5%	1/10W
R423	1-216-073-00			5%	1/10W	R505	1-216-073-00		10K	5%	1/10W
R425	1-216-061-00				1/10W	R506	1-216-073-00		10K	5%	1/10W
R426	1-216-049-00			5%	1/10W	R507	1-216-069-00		6. 8K		1/10W
R428	1-216-073-00	METAL CHI	P 10K	5%	1/10W	R508	1-216-069-00	METAL CHIP	6. 8K	5%	1/10W

Ref. No.	Part No.	Description		R	emark	Ref. No.	Part No.	Description		R	emark
R510	1-216-063-00	METAL CHIP	3.9K 5%	1/10		C640	1-126-206-11	ELECT CUID	1005		
R511	1-216-033-00		220 5%	1/10		C641	1-126-206-11		100uF 100uF	20% 20%	6. 3V
R512	1-216-069-00		6. 8K 5%	1/10		C642	1-126-206-11		100uF	20%	6.3V 6.3V
R513	1-216-063-00		3. 9K 5%	1/10		C643		CERAMIC CHIP	270PF	20% 5%	50V
R514	1-216-057-00		2. 2K 5%	1/10		C644		CERAMIC CHIP	820PF	5%	50V
				•				J	02011	070	304
R515	1-216-079-00	METAL CHIP	18K 5%	1/10	W	C645	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
R516	1-216-045-00	METAL CHIP	680 5%	1/10	W	C646	1-164-232-11	CERAMIC CHIP	0. 01uF	2 7.7	50V
R517	1-216-067-00		5.6K 5%	1/10		C647	1-126-193-11		1uF	20%	50 V
R518	1-216-055-00		1.8K 5%	1/10		C648		CERAMIC CHIP	0.01uF		50V
R519	1-216-057-00	METAL CHIP	2.2K 5%	1/10	W	C649	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
R520	1-216-079-00	METAL CUID	10V EW	1 /10	u .	0000	1 104 100 44	05000000000			
R521	1-216-045-00		18K 5% 680 5%	1/10\ 1/10\		C650		CERAMIC CHIP	0.0033uF	10%	50V
R521	1-216-067-00		5. 6K 5%	1/10\		C651 C652	1-126-602-11		3. 3uF	20%	50 V
R523	1-216-051-00		1. 2K 5%	1/10		C653	1-126-193-11	CERAMIC CHIP	1uF	20%	50V
R524	1-216-057-00		2. 2K 5%	1/101		C654		CERAMIC CHIP	220PF 16PF	5%	50V
	, =		21 211 070	1, 101	"	0034	1-103-036-00	CENAMIC CHIP	IOTT	5%	50V
R525	1-216-075-00	METAL CHIP	12K 5%	1/10	w .	C655	1-124-778-00	ELECT CHIP	22uF	20%	6. 3V
R527	1-216-097-00	METAL CHIP	100K 5%	1/10	N	C656		CERAMIC CHIP	0. 001uF	10%	50V
R531	1-216-097-00	METAL CHIP	100K 5%	1/10	N	C657	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
R532	1-216-089-00	METAL CHIP	47K 5%	1/10	v	C660	1-126-205-11	ELECT CHIP	47uF	20%	6. 3V
						C661	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
		< VARIABLE RES!	STOR >								
DVE 0.1	1 220 002 00	DEC ADI METAL	4 74			C663		ELECT, NONPOLAR		20%	50V
KVOUI	1-228-993-00	RES, ADJ, METAL	4. / K			C665	1-163-113-00		68PF	5%	50 V
		< THERMISTOR >				C666	1-164-232-11		0.01uF		50V
		(INERMISION)				C667	1-124-499-11	ELECT, NONPOLAR		20%	50V
TH401	1-800-200-00	THERMISTOR	S-3K			C669	1-126-193-11	FLECI	1uF	20%	50V
		177211111111111111111111111111111111111	O VII			C673	1-124-778-00	FLECT CHIP	22uF	2.00/	6 011
		< CRYSTAL >				C674	1-163-038-00		0. 1uF	20%	6.3V 25V
						C677	1-126-205-11		47uF	20%	6. 3V
X301		VIBRATOR, CRYST		Hz	i	C678	1-163-038-00		0. 1uF	2070	25V
X401		OSCILLATOR, CRY				C685	1-124-778-00		22uF	20%	6. 3V
******	******	*******	********	******	*****						
		.				C686	1-163-038-00		0. 1uF		25V
*	A-/063-055-A	DI-46 BOARD, COM		o. 1000	Series)	C687	1-163-038-00		0. 1uF		25V
		********	****			C688	1-126-206-11		100uF	20%	6.3V
	1 600 040 11	WIDE FLAT TUDE	(1.1.0005)			C689	1-124-778-00		22uF	20%	6.3V
	1-090-348-11	WIRE, FLAT TYPE	(14 CUKE)			C690	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
		< CAPACITOR >				C691	1-163-113-00	CERAMIC CUID	68PF	E0/	E O 1
						C692	1-163-103-00		27PF	5% 5%	50V
C620	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	C693	1-124-779-00		10uF	5% 20%	50V 16V
C621	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	C694	1-124-778-00		22uF	20%	6. 3V
C624	1-124-779-00	ELECT CHIP	10uF	20%	16V	C695	1-163-121-00		150PF	5%	50V
C627	1-124-778-00		22uF	20%	6. 3V					0,0	001
C629	1-124-778-00	ELECT CHIP	22uF	20%	6. 3V	C696	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
					1	C697	1-163-121-00		150PF	5%	50V
C630	1-163-031-11		0.01uF		50V	C698	1-164-232-11	CERAMIC CHIP	0. 01uF	•.•	50V
C631	1-126-193-11		1uF	20%	50V	C699	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C634	1-124-778-00		22uF	20%	6. 3V	C700	1-163-038-00		0. 1uF		25V
C635	1-164-232-11		0.01uF		50V						
C636	1-163-038-00	CERAMIC CHIP	0. 1uF		25V		1-126-205-11		47uF	20%	6.3V
0697	1_164_000_14	CEDAMIC OUID	0.015		FA		1-126-205-11		47uF	20%	6.3V
C637 C639	1-164-232-11 1-124-778-00		0. 01uF	2.04/	50V		1-126-205-11		47uF	20%	6. 3V
0003	1 - 124-110-00	LLLUT UIIIF	22uF	20%	6. 3V	C705	1-126-205-11	ELECT CHIP	47 u F	20%	6.3V

Ref. No.	Part No.	Description		Re	mark	Ref. No.	Part No.	Description			mark
C706		CERAMIC CHIP	0. 01uF		50V	C769	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
C707	1-124-779-00		10uF	20%	16V	C770		CERAMIC CHIP	0.01uF		50 V
C708		CERAMIC CHIP	51PF	5%	50V	C771		CERAMIC CHIP	0. 01uF		50V
C708		CERAMIC CHIP	0. 01uF	070	50V	C772		CERAMIC CHIP	0. 01uF		50V
C714		CERAMIC CHIP	0. 01uF		50V	C773		CERAMIC CHIP	0. 01uF		50V
6/14	1-104-232-11	CERAMIC CITT	0. 0141		301	0770	. 100 001 11	OCHAMITO OIIII	0. 0 141		001
C720	116303800	CERAMIC CHIP	0. 1uF		25V	C774	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C722	1-124-778-00		22uF	20%	6. 3V	C775		CERAMIC CHIP	0. 1uF		25V
C722	1-124-778-00		22uF	20%	6. 3V	C776		CERAMIC CHIP	0. 1uF		25V
C723	1-124-776-00		100uF	20%	6. 3V	C777		CERAMIC CHIP	0. 1uF		25V
C725	1-126-205-11		47uF	20%	6. 3V	C778		CERAMIC CHIP	0. 1uF		25V
6723	1-120-203-11	ELECT OHIT	4701	20/4	0. 37	0110	1 100 000 00	OCHAMIO OILL	V. 101		201
C726	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	C779	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C727		CERAMIC CHIP	0. 01uF		50V	C780		CERAMIC CHIP	47PF	5%	50V
C729		CERAMIC CHIP	0. 1uF		25V	C781		CERAMIC CHIP	0. 01uF	•/•	50V
C730		CERAMIC CHIP	0. 1uF		25V	C783	1-126-205-11		47uF	20%	6. 3V
C731		CERAMIC CHIP	0. 1uF		25V	C786		CERAMIC CHIP	150PF	5%	50V
6/31	1-103-036-00	CERAMIC CHIF	v. Tur		234	0100	1-103-121-00	CENAMIC CITT	13011	J/6	304
C732	1_163_038_00	CERAMIC CHIP	0. 1uF		25V	C787	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C733		CERAMIC CHIP	0. 1uF		25V	C791		CERAMIC CHIP	330PF	5%	50V
C734		CERAMIC CHIP	0. 1uF		25V	C797		CERAMIC CHIP	0. 01uF	070	50V
			0. 1uf		25V 25V	C800		CERAMIC CHIP	0. 01uf	10%	50 V
C735		CERAMIC CHIP				C910		CERAMIC CHIP	33PF	5%	50 V
C736	1-103-038-00	CERAMIC CHIP	0. 1uF		25V	0310	1-103-239-11	CERAMIC CHIP	JOFF	376	304
C737	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	C911	1-163-222-11	CERAMIC CHIP	5PF	0.25P	F 50V
C738		CERAMIC CHIP	0. 1uF		250			011111111111111111111111111111111111111	•		
C739		CERAMIC CHIP	0. 1uF		25V			< CONNECTOR >			
C740		CERAMIC CHIP	39PF	5%	50V			COUNTEDION			
C741		CERAMIC CHIP	22PF	5%	50V	CN602	1-563-591-11	CONNECTOR, FLEX	IBLE 14P		
•											
C742	1-163-101-00	CERAMIC CHIP	22PF	5%	50V			< TRIMMER >			
C743	1-163-101-00	CERAMIC CHIP	22PF	5%	507						
C744		CERAMIC CHIP	22PF	5%	500	CV701	1-141-311-11	CAP, TRIMMER	20PF		
C746		CERAMIC CHIP	0. 01uF		50V	CV702	1-141-422-11	CAP, ADJ			
C747		CERAMIC CHIP	0. 01uF		50V	CV704	1-141-422-11	CAP, ADJ			
C748	1-163-031-11	CERAMIC CHIP	0.01uF		50V			< DIODE >			
C749	1-163-031-11	CERAMIC CHIP	0.01uF		50 V						
C752	1-163-031-11	CERAMIC CHIP	0.01uF		·50V	D701	8-713-300-88	DIODE 1T33C-0	1		
C753	1-163-031-11	CERAMIC CHIP	0.01uF		50V	D702	8-719-949-46	DIODE 1T32			
C754	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	D707	8-719-940-45	DIODE DWA010			
•						D708	8-719-940-45	DIODE DWA010			
C755	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	D710	8-719-400-18	DIODE MA152WA			
C756	1-163-031-11	CERAMIC CHIP	0.01uF		50V			•			
C757		CERAMIC CHIP	0. 01uF		50V	D711	8-719-400-18	DIODE MA152WK			
C758		CERAMIC CHIP	0. 01uF		50V	D901	8-719-104-34	DIODE 1\$2836			
C759		CERAMIC CHIP	0. 01uF		50V						
								< FERRITE BEAD	>		
C760	1-163-031-11	CERAMIC CHIP	0.01uF		50V						
C761	1-163-031-11	CERAMIC CHIP	0.01uF		50V	FB603	1-543-256-11	BEAD, FERRITE			
C762	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	F8604	1-543-256-11	BEAD, FERRITE			
C763	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	FB605	1-543-256-11	BEAD, FERRITE			
C764		CERAMIC CHIP	0. 01uF		50V			BEAD, FERRITE			
C765	1-163-031-11	CERAMIC CHIP	0. 01uF		50V			< FILTER >			
C766	1-163-031-11	CERAMIC CHIP	0.01uF		50V						
C767	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	FL601	1-421-927-21	FILTER, NOISE			
C768	1-163-031-11	CERAMIC CHIP	0. 01uF		50V						
					•						

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description		Remark
		< 10 >		0606	8-729-100-66	TRANSISTOR	2801623	
				0607	8-729-100-66		2SC1623	
10701	8-759-987-17	IC CXD1226Q		0608	8-729-100-66		2SC1623	
10702	8-759-987-18			Q609	8-729-216-22		2SA1162	
	8-759-987-19			Q610	8-729-100-66		2SC1623	
	8-759-987-20	-		4010	5 125 100 00	INAMOTOTOR	2301023	
	8-752-340-75			Q611	8-729-100-66	TRANCICTOR	1001602	
		77 77 77 77 77 77 77 77 77 77 77 77 77	İ	Q612			2SC1623	
10706	8-752-340-75	IC CXK1206M		Q613	8-729-100-66		2SC1623	
	8-752-340-75				8-729-100-66		2SC1623	
	8-752-334-55			Q614	8-729-100-66		2SC1623	
	8-752-334-55			Q615	8-729-100-66	IKANSISIOR	2SC1623	
10710	8-752-032-96	IC CXA1106M		Q618	8-729-100-66		2801623	
10741	0 750 000 00	10 07444004	ļ ·	Q619	8-729-100-66		2SC1523	
	8-752-032-96		}	0620	8-729-100-66		2SC1623	
	8-759-011-65			Q621	8-729-100-66		2SC1623	
	8-759-925-85			Q622	8-729-100-66	TRANSISTOR	2SC1623	
1C/20	8-759-504-46	IC PQ05RF1	}					
				Q623	8-729-100-66	TRANSISTOR	2SC1623	
		< COIL >		Q624	8-729-100-66	TRANSISTOR	2801623	
				Q625	8-729-100-66	TRANSISTOR	2SC1623	
L601		INDUCTOR CHIP 47uH		Q626	8-729-100-66	TRANSISTOR	2SC1623	
L602	1-410-389-31	INDUCTOR CHIP 47uH		Q628	8-729-100~66		2SC1623	
L604	1-408-785-21	INDUCTOR CHIP 47uH						
L605	1-408-785-21	INDUCTOR CHIP 47uH	ļ	0630	8-729-100-66	TRANSISTOR	2801623	
L606	1-408-785-21	INDUCTOR CHIP 47uH		Q631	8-729-102-08		2SC2223-F14	
				0636	8-729-216-22		2SA1162	
L607	1-410-393-11	INDUCTOR CHIP 100mH	Ì	Q637	8-729-122-63		2SA1226	
L608	1-410-389-31	INDUCTOR CHIP 47uH	ļ	0901	8-729-901-01		DTC144EK	
L609	1-410-383-31	INDUCTOR CHIP 15uH				111/11010101	DIGITALK	
L610	1-410-383-31	INDUCTOR CHIP 15uH				< RESISTOR >		
L611	1-410-377-31	INDUCTOR CHIP 4. 7uH				V WEGIGION >		
				R101	1-216-295-00	METAL CHIP	0 5%	1/10W
L612	1-408-785-21	INDUCTOR CHIP 47uH		R102	1-216-295-00			•
L614		INDUCTOR CHIP 47uH		R103	1-216-295-00		0 5%	1/10W
L615		INDUCTOR CHIP 47uH		R104	1-216-295-00		0 5%	1/10W
L616		INDUCTOR CHIP 47uH		R105	1-216-295-00		0 5%	1/10W
L617		INDUCTOR CHIP 150uH		NIUJ	1-210-295-00	METAL CHIP	0 5%	1/10W
2011	7 410 000 11	THEOUTON ONTO	j	D106	1 016 005 00	METAL AULA		
L618	1-410-380-31	INDUCTOR CHIP 8. 2uH		R106	1-216-295-00		0 5%	1/10W
L619		INDUCTOR CHIP 56uH		R107	1-216-295-00		0 5%	1/10W
L620		INDUCTOR CHIP 15uH		R108	1-216-295-00		0 5%	1/10W
L621				R109	1-216-295-00		0 5%	1/10W
L623				R110	1-216-295-00	METAL CHIP	0 5%	1/10W
LUZJ	1-410-309-31	INDUCTOR CHIP 47uH						
1004	1 410 000 01	INDUSTOR OUTR 47 H		R111	1-216-295-00		0 5%	1/10₩
L624		INDUCTOR CHIP 47uH		R112	1-216-295-00		0 5%	1/10W
L625		INDUCTOR CHIP 39uH		R113	1-216-295-00	METAL CHIP	0 5%	1/10W
L626	1-410-388-21	INDUCTOR CHIP 39uH		R114	1-216-295-00		0 5%	1/10W
				R115	1-216-295-00	METAL CHIP	0 5%	1/10W
		< TRANSISTOR >						
					1-216-295-00		0 5%	1/10W
Q501	8-729-901-01		ļ	R117	1-216-295-00	METAL CHIP	0 5%	1/10W
Q601	8-729-100-66			R119	1-216-295-00	METAL CHIP	0 5%	1/10W
0602	8-729-100-66			R120	1-216-295-00	METAL CHIP	0 5%	1/10W
0603	8-729-100-66			R121	1-216-295-00	METAL CHIP	0 5%	1/10W
0604	8-729-100-66	TRANSISTOR 2SC1623						
				R122	1-216-295-00	METAL CHIP	0 5%	1/10W
Q605	8-729-100-66	TRANSISTOR 2SC1623			1-216-295-00		0 5%	1/10W
		•	ı					

DI-46

	Part No.	Descri	iption			Remark	Ref. No.	Part No.	Description			Remark
R124	1-216-295-00	METAL	CHIP	0	5%	1/10W	R177	1-216-295-00	METAL CHIP	0	5%	1/10W
R125	1-216-295-00	METAL	CHIP	0	5%	1/10W	R178	1-216-295-00	METAL CHIP	0	5%	1/10W
R126	1-216-295-00			0	5%	1/10W	R179	1-216-295-00	METAL CHIP	0	5%	1/10W
R127	1-216-295-00			0	5%	1/10W	R180	1-216-295-00	METAL CHIP	0	5%	1/10W
R128	1-216-295-00			0	5%	1/10W	R181	1-216-295-00	METAL CHIP	0	5%	1/10W
R129	1-216-295-00	METAL	CHIP	0	5%	1/10W	R182	1-216-295-00	METAL CHIP	0	5%	1/10W
R130	1-216-295-00	METAL	CHIP	0	5%	1/10W	R183	1-216-295-00	METAL CHIP	0	5%	1/10W
R131	1-216-295-00			0 .	5%	1/10W	R184	1-216-295-00	METAL CHIP	0	5%	1/10W
R132	1-216-295-00			0	5%	1/10W	R185	1-216-295-00	METAL CHIP	0	5%	1/10W
R133	1-216-295-00			0	5%	1/10W	R186	1-216-295-00		0	5%	1/10W
R134	1-216-295-00	METAL	CHIP	0	5%	1/10W	R187	1-216-295-00	METAL CHIP	0	5%	1/10W
R135	1-216-295-00	METAL	CHIP	0	5%	1/10W	R188	1-216-295-00	METAL CHIP	0	5%	1/10W
R140	1-216-295-00			0	5%	1/10W	R189	1-216-295-00	METAL CHIP	0	5%	1/10W
R141	1-216-295-00			0	5%	1/10W	R190	1-216-295-00	METAL CHIP	0	5%	1/10W
R142	1-216-295-00			0	5%	1/10W	R191	1-216-295-00	METAL CHIP	0	5%	1/10W
R143	1-216-295-00	METAL	CHIP	0	5%	1/10W	R192	1-216-295-00	METAL CHIP	0	5%	1/10W
R144	1-216-295-00	METAL	CHIP	0	5%	1/10W	R193	1-216-295-00	METAL CHIP	0	5%	1/10W
R145	1-216-295-00	METAL	CHIP	0	5%	1/10W	R194	1-216-295-00	METAL CHIP	0	5%	1/10W
R146	1-216-295-00	METAL	CHIP	0	5%	1/10W	R195	1-216-295-00	METAL CHIP	0	5%	1/10W
R147	1-216-295-00	METAL	CHIP	0	5%	1/10W	R501	1-216-295-00	METAL CHIP	0	5%	1/10W
R148	1-216-295-00	METAL	CHIP	0	5%	1/10W	R502	1-216-089-00	METAL CHIP	47K	5%	1/10W
R149	1-216-295-00	METAL	CHIP	0	5%	1/10W	R503	1-216-295-00	METAL CHIP	0	5%	1/10W
R150	1-216-295-00	METAL	CHIP	0	5%	1/10W	R601	1-216-049-00	METAL CHIP	1 K	5%	1/10W
R151	1-216-295-00	METAL	CHIP	0	5%	1/10W	R602	1-216-295-00	METAL CHIP	0	5%	1/10W
R152	1-216-295-00	METAL	CHIP	0	5%	1/10W	R603	1-216-049-00	METAL CHIP	1 K	5%	1/10W
R153	1-216-295-00	METAL	CHIP	0	5%	1/10W	R604	1-216-295-00	METAL CHIP	0	5%	1/10W
R154	1-216-295-00	METAL	CHIP	0	5%	1/10W	R605	1-216-049-00	METAL CHIP	1 K	5%	1/10W
R155	1-216-295-00	METAL	CHIP	0	5%	1/10W	R606	1-216-041-00	METAL CHIP	470	5%	1/10W
R156	1-216-295-00	METAL	CHIP	0	5%	1/10W	R607	1-216-041-00	METAL CHIP	470	5%	1/10W
R157	1-216-295-00			0	5%	1/10W	R608	1-216-049-00	METAL CHIP	1 K	5%	1/10W
R158	1-216-295-00	METAL	CHIP	0	5%	1/10W	R609	1-216-049-00	METAL CHIP	1 K	5%	1/10W
R159	1-216-295-00	METAL	CHIP	0	5%	1/10W	R611	1-216-295-00	METAL CHIP	0	5%	1/10W
R160	1-216-295-00) METAL	CHIP	0	5%	1/10W	R612	1-216-295-00	METAL CHIP	0	5%	1/10W
R161	1-216-295-00	METAL	CHIP	0	5%	1/10W	R613	1-216-049-00	METAL CHIP	1 K	5%	1/10W
R162	1-216-295-00	METAL	CHIP	0	5%	1/10W	R614	1-216-085-00	METAL CHIP	33K	5%	1/10W
R163	1-216-295-00			0	5%	1/10W	R615	1-216-089-00		47 K	5%	1/10W
R164	1-216-295-00) METAL	CHIP	0	5%	1/10W	[R616	1-216-295-00		0	5%	1/10W
R165	1-216-295-00) METAL	CHIP	0	5%		R618	1-216-089-00	METAL CHIP	47K	5%	
R166	1-216-295-00) METAL	CHIP	.0	5%	1/10W -	R619	1-216-085-00	METAL CHIP	33K	5%	1/10W
R167	1-216-295-00	METAL	CHIP	0	5%	1/10W	R624	1-216-089-00	METAL CHIP	47K	5%	1/10W
R168	1-216-295-00			0	5%	1/10W	R625	1-216-089-00		47K	5%	1/10W
R169	1-216-295-00			0	5%	1/10W	R626	1-216-049-00		1 K	5%	1/10W
R170	1-216-295-00) METAL	CHIP	0	5%	1/10W	R627	1-216-049-00		1 K	5%	1/10W
R171	1-216-295-00			0	-5%	1/10W	R628	1-216-073-00		10K	5%	1/10W
R172	1-216-295-00	METAL	CHIP	0	5%	1/10W	R629	1-216-041-00	METAL CHIP	470	5%	1/10W
R173	1-216-295-00			0	5%	1/10W	R630	1-216-037-00		330	5%	1/10₩
R174	1-216-295-00	METAL	CHIP	0	5%	1/10W	R631	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R175	1-216-295-00) METAL	CHIP	0	5%	1/10W	R632	1-216-081-00	METAL CHIP	22K	5%	1/10W
R176	1-216-295-00	METAL	CHIP	0	5%	1/10W	R633	1-216-049-00	METAL CHIP	1 K	5%	1/10W

Ref. No.	Part No.	Descr	iption 			Remark	Ref. No.	Part No.	Description			Remark
R634	1-216-069-00	METAL	CHIP	6. 8K	5%	1/10W	R695	1-216-085-00	METAL CHIP	33K	5%	1/10W
R635	1-216-073-00	METAL	CHIP	10K	5%	1/10W	R696	1-216-009-00		22	5%	1/10W
R636	1-216-049-00	METAL	CHIP	1 K	5%	1/10W	R700	1-216-295-00		0	5%	1/10W
R637	1-216-025-00	METAL	CHIP	100	5%	1/10W	R701	1-216-295-00		0	5%	1/10W
R638	1-216-025-00			100	5%	1/10W	R714	1-216-295-00		0	5%	•
					•	,,	"''	1 210 200 00	MICIAL VIIII	v	3/0	1/10W
R639	1-216-049-00	METAL	CHIP	1 K	5%	1/10W	R716	1-216-097-00	METAL CHIP	100K	5%	1 /104/
R640	1-216-039-00			390	5%	1/10W	R717	1-216-295-00		0	5%	1/10W
R641	1-216-073-00			10K	5%	1/10W	R720	1-216-295-00		0	5%	1/10W
R642	1-216-061-00			3. 3K		1/10W	R727	1-216-061-00		3. 3K		1/10W
R643	1-216-049-00			1 K	5%	1/10W	R728	1-216-295-00		3. 3K	5%	1/10W
			•	• • • •	•/•	.,	1 "720	1 210 233 00	MICIAL OIIII	U	J70	1/10W
R644	1-216-081-00	METAL	CHIP	22K	5%	1/10W	R729	1-216-073-00	METAL CUID	104	E 6/	4 /4 610
R645	1-216-067-00			5. 6K		1/10W	R730			10K	5%	1/10W
R646	1-216-053-00			1. 5K	5%	1/10W	R731	1-216-041-00 1-216-035-00		470	5%	1/10W
R647	1-216-025-00			100	5%	1/10W	R731			270	5%	1/10W
R648	1-216-073-00			10K	5%	1/10W	R733	1-216-057-00		2. 2K		1/10W
11040	1 210 010 00	METAL	VIIII	IVK	U/4	17 10#	1100	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W
R649	1-216-073-00	METAI	CHIP	10K	5%	1/10W	0794	1 110 001 00	METAL AULD			
R650	1-216-041-00			470	5%	1/10W	R734	1-216-081-00		22K	5%	1/10W
R652	1-216-061-00			3. 3K		1/10W	R735	1-216-065-00		4. 7K		1/10W
R653	1-216-057-00	_		2. 2K	5%		R736	1-216-041-00		470	5%	1/10W
R654	1-216-019-00					1/10W	R737	1-216-037-00		330	5%	1/10W
N034	1-210-019-00	METAL	Unir	56	5%	1/10W	R738	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W
R655	1 216 040 00	METAL	CHID	1 V	Γ6/	1 /1 010	2244					
	1-216-049-00			1 K	5%	1/10W	R739	1-216-061-00		3.3K	5%	1/10W
R656	1-216-057-00			2. 2K		1/10W	R740	1-216-039-00		390	5%	1/10W
R657	1-216-021-00			68	5%	1/10W	R741	1-216-041-00		470	5%	1/10W
R658	1-216-049-00			1 K	5%	1/10W	R742	1-216-073-00		10K	5%	1/10W
R659	1-216-117-00	METAL	CHIP	680K	5%	1/10W	R743	1-216-025-00	METAL CHIP	100	5%	1/10W
0000	1 010 005 00		AU 1 B									
R660	1-216-085-00			33K	5%	1/10W	R744	1-216-049-00		1 K	5%	1/10W
R661	1-216-085-00			33K	5%	1/10W	R745	1-216-041-00	METAL CHIP	470	5%	1/10W
R662	1-216-085-00			33K	5%	1/10W	R746	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R663	1-216-073-00			10K	5%	1/10W	R747	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R664	1-216-085-00	MEIAL	CHIP	33K	5%	1/10W	. R748	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
DCCC	1 010 040 00	METAL	AU . B	4.0								
R665	1-216-049-00			1K	5%	1/10W	R749	1-216-081-00	METAL CHIP	22K	5%	1/10W
R666	1-216-053-00			1. 5K		1/10W	R750	1-216-049-00		1 K	5%	1/10W
R671	1-216-295-00			0	5%	1/10W	R751	1-216-295-00	METAL CHIP	0 .	5%	1/10W
R676	1-216-097-00					1/10W	R755	1-216-295-00		0	5%	1/10W
R677	1-216-295-00	METAL	CHIP	0	5%	1/10W	R756	1-216-049-00	METAL CHIP	1 K	5%	1/10W
0.70	1 010 110 00	METAL	A11.1.D									
R679	1-216-119-00				5%	1/10W	R757	1-216-049-00		1 K	5%	1/10W
R680	1-216-111-00			390K		1/10W	R758	1-216-041-00	METAL CHIP	470	5%	1/10W
R681	1-216-105-00			220K		1/10W	R759	1-216-049-00	METAL CHIP	1 K	5%	1/10W
R682	1-216-097-00			100K		1/10W	R760	1-216-049-00		1 K	5%	1/10W
R685	1-216-121-00	METAL	CHIP	1M	5%	1/10W	R761	1-216-081-00	METAL CHIP	22K	5%	1/10W
R686	1-216-053-00			1. 5K		1/10W	R762	1-216-077-00	METAL CHIP	15K	5%	1/10W
R687	1-216-097-00			100K	5%	1/10W	R763	1-216-061-00	METAL CHIP	3. 3K		1/10W
R688	1-216-119-00	_		820K	5%	1/10W	R764	1-216-065-00		4. 7K	5%	1/10W
R689	1-216-111-00			390K	5%	1/10W	R765	1-216-069-00		6. 8K	5%	1/10W
R690	1-216-105-00	METAL	CHIP	220K	5%	1/10W	R767	1-216-061-00		3. 3 K	5%	1/10W
					-							.,
R691	1-216-097-00	METAL	CHIP	100K	5%	1/10W	R768	1-216-025-00	METAL CHIP	100	5%	1/10W
R692	1-216-073-00	METAL	CHIP	10K	5%	1/10W	R769	1-216-061-00		3. 3K	5%	1/10W
R693	1-216-121-00			1M	5%	1/10W	R770	1-216-025-00		100	5%	1/10W
R694	1-216-073-00	METAL	CHIP	10K	5%	1/10W	R771	1-216-085-00		33K	5%	1/10W
						•				***	-,-	7 1 4 11

DI-46 DS-55

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			mark
R772	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W	R988	1-216-295-00	METAL CHIP	0 5%	1/10W	
R773	1-216-049-00		1 K	5%	1/10W	R994	1-216-295-00	METAL CHIP	. 0 5%	1/10W	1
R774	1-216-049-00		1 K	5%	1/10W	R995	1-216-295-00	METAL CHIP	0 5%	1/10W	1
R775	1-216-049-00		1 K	5%	1/10W	R996	1-216-295-00	METAL CHIP	0 5%	1/10W	ı
R776	1-216-073-00		10K	5%	1/10W	R997	1-216-295-00	METAL CHIP	0 5%	1/10W	1
	. 2										
R777	1-216-073-00	METAL CHIP	10K	5%	1/10W			< VARIABLE RES	SISTOR >		
R788	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W						
R789	1-216-089-00		47 K	5%	1/10W			RES, ADJ, META			
R790	1-216-089-00	METAL CHIP	47K	5%	1/10W	RV603	1-230-866-11	RES, ADJ, META	AL 470		
R791	1-216-073-00		10K	5%	1/10W						
								< CRYSTAL >			
R795	1-216-295-00	METAL CHIP	0	5%	1/10W						
R796	1-216-295-00		0	5%	1/10W	X701		OSCILLATOR, CF			
R799	1-216-295-00		0	5%	1/10W	X703		OSCILLATOR, CF			
R800	1-216-049-00		1 K	5%	1/10W	******	*******	******	******	******	****
R801	1-216-049-00	METAL CHIP	1 K	5%	1/10W				NUDI 575 (D. (
						*	A-7063-054-A	DS-55 BOARD, CO	-	No. 1000	Series)
R804	1-216-295-00		0	5%	1/10W			******	*****		
R806	1-216-077-00		15K	5%	1/10W		4 535 003 44	01015 5147 /		100	
R807	1-216-077-00		15K	5%	1/10W			CABLE, FLAT	•		
· R808	1-216-013-00		33	5%	1/10W			CABLE, FLAT			
R809	1-216-041-00	METAL CHIP	470	5%	1/10W			CABLE, FLAT			
				F44	4 /4 6111		7-685-646-79	SCKEM +BAIL	3X8 TYPE2	11-3	
R816	1-216-025-00		100	5%	1/10W			< BUZZER >			
R817	1-216-049-00		1 K	5%	1/10W	1		C BULLEN >			
R818	1-216-061-00		3. 3K		1/10W	B7001	1-529-070-11	RII77FR			
R841	1-216-295-00		0	5% 5%	1/10W 1/10W	82001	1-323-010-11	BUZZEN			
R842	1-216-295-00	METAL CHIP	U	376	1/10#			< CAPACITOR >			
0045	1-216-295-00	NETAL CUID	0	5%	1/10W			C ONI NOTITOR >			
R845	1-216-295-00		1 K	5%	1/10W	C001	1-125-486-11	DOUBLE LAYERS	0. 22F		5. 5V
R848			0	5%	1/8W	C002	1-124-126-00		47uF	20%	107
R850	1-216-296-00 1-216-089-00		47K	5%	1/10W	C003		CERAMIC CHIP	0. 01uF	2070	50V
R901		METAL CHIP	150	5%	1/10W	C004		CERAMIC CHIP	0. 01uF		50V
R910	1-210-023-00	MILIAL VIIII	100	V/I	17 1011	C00.7		CERAMIC CHIP	0. 01uF		50V
R911	1_216_121_0	METAL CHIP	1 M	5%	1/10W						
R920		METAL CHIP	Ô	5%	1/10W	C008	1-124-907-11	ELECT	10uF	20%	50V
R921		METAL CHIP	Ŏ	5%	1/10W	C009		CERAMIC CHIP	0. 047uF		50V
R924		O METAL CHIP	Ŏ	5%	1/10W	C010		CERAMIC CHIP	0. 01uF		50V
R925		O METAL CHIP	0	5%	1/10W	C011	1-124-925-11		2. 2uF	20%	100V
Mazo	1 210 200 0	o meme onn	•	•	.,	C015		CERAMIC CHIP	12PF	5%	50V
R959	1-216-295-0	O METAL CHIP	0	5%	1/10W	1					
R960		O METAL CHIP	1M	5%	1/10W	C016	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
R970		O METAL CHIP	0	5%	1/10W	C021	1-124-907-11	ELECT	10uF	20%	50V
R971		O METAL CHIP	0	5%	1/10W	C024		CERAMIC CHIP	0.047uF		50V
R972		O METAL CHIP	0	5%	1/10W	C025	1-164-232-11	CERAMIC CHIP	0.01uF		50V
,,,,,						C026	1-124-471-00	ELECT	1000uF	20%	6.3V
R973	1-216-295-0	O METAL CHIP	0	5%	1/10W						
R980		O METAL CHIP	0	5%	1/10W	C106	1-124-907-11	ELECT	10uF	20%	50 V
R981		O METAL CHIP	0	5%	1/10W	C107	1-124-907-11	ELECT	10uF	20%	50V
R982		O METAL CHIP	0	5%	1/10W	C108	1-123-382-00		3. 3uF	20%	100V
R983		O METAL CHIP	0	5%	1/10W	C110		CERAMIC CHIP	22PF	5%	50V
						C111	1-163-101-00	CERAMIC CHIP	22PF	5%	50 V
R984		O METAL CHIP	0	5%	1/10W						
R985		O METAL CHIP	0	5%	1/10W	C112		CERAMIC CHIP	22PF	5%	50V
R986		O METAL CHIP	0	5%	1/10W	C113		CERAMIC CHIP	22PF	5%	. 50V
R987	1-216-295-0	O METAL CHIP	0	5%	1/10W	C114	1-163-101-00	CERAMIC CHIP	22PF	5%	50V

Ref. No.	Part No.	Description			emark 	Ref. No.	Part No.	Description			Remark
C115		CERAMIC CHIP	22PF	5%	50V	C236	1-164-161-11	CERAMIC CHIP	0. 0022uF	10%	100V
C116	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	C237		CERAMIC CHIP	0. 0047uF	5%	50V
C117		CERAMIC CHIP	22PF	5%	507	C238		CERAMIC CHIP	0. 0041G1	10%	50V
C118	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	C239		CERAMIC CHIP	0. 022uF	10%	
C119		CERAMIC CHIP	22PF	5%	50V	C240	1-124-907-11		10uF	20%	25V 50V
C120	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	C241	1-124-903-11	FLECT	1uF	20%	EAV
C121		CERAMIC CHIP	22PF	5%	500	C242		CERAMIC CHIP	O. TuF	2 0 76	50V
C122		CERAMIC CHIP	22PF	5%	50V	C243		CERAMIC CHIP			25V
C125		CERAMIC CHIP	22PF	5%	50V	C244		CERAMIC CHIP	0.01uF		50V
C126		CERAMIC CHIP	22PF	5%	50V	C244		CERAMIC CHIP	0. 01uF 0. 1uF		50 V 2 5 V
C127	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	0046			400 5		
C128		CERAMIC CHIP	22PF			C246	1-124-443-00		100uF	20%	107
C129		CERAMIC CHIP	22FF	5%	50V	C249	1-126-233-11		22uF	20%	50V
C123		CERAMIC CHIP		5%	50V	C250	1-126-233-11		22uF	20%	50V
			22PF	5%	50V	C252	1-163-031-11		0.01uF		50 V
C131	1-103-101-00	CERAMIC CHIP	22PF	5%	50V	C254	1-124-443-00	ELECT	100uF	20%	10V
C132	1-163-101-00		22PF	5%	50V	C255	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C133	1~163-101-00		22PF	5%	50V	C256	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C134	1-163-101-00		22PF	5%	50V	C257	1-124-443-00	ELECT	100uF	20%	10V
C135	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	C258	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C136	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	C259		CERAMIC CHIP	0. 1uF		25V
C137	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	C260	1-163-133-00	CERAMIC CHIP	470PF	Eø/	EOV
C150	1-163-101-00		22PF	5%	50V	C261	1-163-117-00			5%	50 V
C151	1-163-101-00		22PF	5%	50V	C262	1-126-162-11		100PF	5%	50 V
C201	1-126-233-11		22uF	20%	50V	C263	1-163-137-00		3. 3uF	20%	50V
C202	1-163-241-11		39PF	5%	50V	C264	1-163-011-11		680PF 0.0015uF	5% 10%	50V 50V
C203	1-163-031-11	CERAMIC CHIP	0.01uF		50V	0065					
C204	1-126-233-11		22uF	20%		C265	1-163-237-11		27PF	5%	50V
C205	1-163-038-00		0. 1uF	20%	50V	C266	1-163-077-00		0. 1uF	10%	25V
C206	1-163-038-00		0. 1uF		25V	C267	1-126-301-11		1uF	20%	50V
C207	1-124-443-00		100uF	2.00/	25V	C268	1-163-038-00		0. 1uF		25V
0207	1 124 440 00	LLCOI	10041	20%	10V	C269	1-126-154-11	ELECT	47 uF	20%	6. 3V
C208	1-124-443-00		100uF	20%	10V	C270	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C209	1-126-233-11	ELECT	22uF	20%	50V	C271	1-163-016-00	CERAMIC CHIP	0.0039uF	10%	50V
C210	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	C272	1-124-443-00		100uF	20%	107
C219	1-124-443-00		100uF	20%	10V	C273	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C220	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	C275	1-163-031-11		0.01uF		50V
C221	1-124-443-00	ELECT	100uF	20%	10V	C276	1-124-126-00	ELECT	47uF	20%	10V
C222	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	C277	1-124-902-00		0. 47uF	20%	50V
C223	1-126-233-11	ELECT	22uF	20%	50V	C278	1-163-031-11		0. 01uF	2074	50V
C224	1-124-443-00	ELECT	100uF	20%	107	C279	1-124-126-00		47uF	20%	10V
C225	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	C280	1-163-031-11		0. 01uF	20%	50V
C226	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	C281	1_104 440 00	CI COT	100 5		4.6
C227	1-163-031-11		0. 01uF		50V		1-124-443-00		100uF	20%	10V
C228	1-163-237-11		0. 0 tur 27PF	5%	II	C282	1-124-927-11		4. 7uF	20%	100V
C229	1-163-237-11				50V	C283	1-124-443-00		100uF	20%	10V
C230	1-124-443-00		27PF	5%	50V	C284	1-124-927-11		4. 7uF	20%	100V
0230	1-124-440-00	LLEVI	100uF	20%	100	C285	1-124-927-11	ELECT	4. 7uF	20%	100V
C231	1-163-038-00		0. 1uF	_	25V	C286	1-124-443-00	ELECT	100uF	20%	107
C232	1-124-903-11		1uF	20%	50V	C287	1-124-927-11	ELECT	4. 7uF	20%	100V
C233	1-163-097-00		15PF	5%	50V	C288	1-124-443-00		100uF	20%	107
C235	1-126-233-11	ELECT	22uF	20%	50V	C289	1-163-031-11	CERAMIC CHIP	0. 01uF		50V

	Part No.	Description		Re	mark	Ref. No.	Part No.	Descr	iption		Remark
C290	1-124-126-00	FLECT	47uF	20%	10V			< TRI	MMER >		
C292	1-163-031-11		0. 01uF	20/	50V						
C292	1-163-031-11		0. 01uF		50V	CV201	1-141-245-00	CAP.	TRIMMER	30PF	
C293	1-124-907-11		10uF	20%	50V	0.20	1 141 240 00	V/	· · · · · · · · · · · · · · · · · · ·	••••	
C297	1-124-902-00		0. 47uF	20%	50V			< D10	DF >		
6237	1-124-302-00	CECOI	0. 41 di	2074	***			` 5.0			
C298	1-124-902-00	FLECT	0. 47uF	20%	50V	D001	8-719-200-36	DIODE	E100S04		
C299	1-126-233-11		22uF	20%	50V	D002	8-719-200-36				
C308	1-126-233-11		22uF	20%	50V	D003	8-719-200-27				
C313	1-126-233-11		22uF	20%	50V	D004	8-719-400-18				
C314	1-126-233-11		22uF	20%	50V	D005	8-719-400-18				
0014	1 120 200 11				11.						
C315	1-124-443-00	ELECT	100uF	20%	10V	D007	8-719-400-18	DIODE	MA152WK		
C316	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	D008	8-719-200-02	DIODE	10E2		
C317	1-126-233-11	ELECT	22uF	20%	50V	D102	8-719-106-23	DIODE	RD7. 5M-8	32	
C319	1-126-233-11	ELECT	22uF	20%	50V	D202	8-719-400-18	DIODE	MA152WK		
C320	1-163-031-11	CERAMIC CHIP	0.01uF		50V	D212	8-719-105-92	DIODE	RD5.6M-E	33	
										•	
C321		CERAMIC CHIP	10PF	5%	50V	D213	8-719-800-76	DIODE	188226		
C323		CERAMIC CHIP	0.01uF		50V						
C324		CERAMIC CHIP	0. 01uF		50V			< + t+	RRITE BEAD :	>	
C325		CERAMIC CHIP	0.01uF		50V						
C326	1-163-031-11	CERAMIC CHIP	0.01uF		50V		1-543-256-11				
		4504444 0445			5011		1-543-256-11				
C327		CERAMIC CHIP	0. 01uF		50V	FR003	1-543-256-11	BEAU.	FERRITE		
C328		CERAMIC CHIP	0.01uF	P44	50V						
C329		CERAMIC CHIP	39PF	5%	50V			< 10	>		
C330	1-124-443-00		100uF	20%	10V	10004	B 750 009 67	10	MOTAGERE		
C331	1-163-038-00	CERAMIC CHIP	0. 1uF		25V		8-759-008-67 8-759-990-07		MC14066BF TL1596CNS		
C332	1-124-443-00	EI EAT	100uF	20%	10V		8-752-834-15		CXP80316-0	160	
C334		CERAMIC CHIP	0. 1uF	20/6	257		8-759-513-72		PQ12RF11	100	
C338		CERAMIC CHIP	10PF	5%	50V		8-759-513-73		PQ09RF11		
C339	1-126-233-11		22uF	20%	50V	10100	0 103 010 10	, 0	1 203111 11		
C345		CERAMIC CHIP	0. 01uF	2076	507	10201	8-752-055-95	ır	CXA1409AQ-	Τα	
6343	1-103-031-11	CERAMIC CITT	0. V i u i		***		8-759-631-10		M52684AFP		
C351	1-163-127-00	CERAMIC CHIP	270PF	5%	50V		8-759-300-71		HD14053BFP		
C352		CERAMIC CHIP	270PF	5%	50V		8-759-056-34		M50555-054	FP	
0332	1-100-121-00	CHAMIC CITT	27011	3/4	***		8-759-710-29		NJM2235M	•	
		< CONNECTOR >				,0200	0 100 110 20			•	•
						10206	8-759-710-09	İC	NJM2233AM		*
CN001	1-590-019-11	CONNECTOR, FPC	FFC 5P			10207	8-759-300-71	IC	TC4053BF		
CN002	1-575-366-11	CONNECTOR, FPC	FFC 9P		İ	IC211	8-759-710-09	10	NJM2233AM		
		SOCKET, CONNECT									
CN004	1-569-239-11	SOCKET, CONNECT	TOR 20P					< C0	IL >		
CN005	1-565-510-11	SOCKET, CONNECT	TOR 16P								
						L101	1-408-958-21			1uH	
		CONNECTOR, FPC,				L102	1-408-958-21			1 u H	
		CONNECTOR, FPC,			1	L103	1-410-993-11			1 u H	
		CONNECTOR, FPC,			ŀ	L104	1-410-993-11			1uH	
		CONNECTOR, FPC		8P		L105	1-410-993-11	INDU	CTOR CHIP	1uH	
CN012	1-506-468-11	CONNECTOR	3P. MALE]					444 12	
					ļ	L201	1-407-169-XX			100uH	
		CONNECTOR, FLE			j	L202	1-408-975-21			27uH	
CN014	1-563-602-11	CONNECTOR, FLE	KIBLE 25P		1	L203	1-408-975-21			27uH	
						L204	1-407-169-XX			100uH	
						L205	1-408-974-21	INDU	JIOR	22 u H	

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description			Remark
L207	1-407-169-XX	INDUCTOR	100uH		0244	8-729-100-66	TRANSISTOR	2SC1623		
L208	1-407-169-XX	INDUCTOR	100uH	1	0245	8-729-216-22		2SA1162		
L209	1-407-169-XX	INDUCTOR	100uH	İ	0246	8-729-900-53		DTC114EK		
L213	1-408-978-21		47 u H	İ	0247	8-729-900-53		DTC114EK		
L215	1-408-985-21	INDUCTOR	180 uH		0248	8-729-100-66		2SC1623		
L216	1-408-978-21	INDUCTOR	47 u H		0249	8-729-100-66	TRANSISTOR	2SC1623		
L220	1-408-970-21	INDUCTOR	10 u H		Q250	8-729-100-66		2SC1623		
		< TRANSISTOR	ł >				< RESISTOR >			
0001	8-729-901-04	TRANSISTOR	DTA114EK		R007	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W
0002	8-729-901-04	TRANSISTOR	DTA114EK		R011	1-216-089-00		47K	5%	1/10W
0003	8-729-807-87	TRANSISTOR	2SB1295-UL6		R012	1-216-089-00		47K	5%	1/10W
0004	8-729-901-01	TRANSISTOR	DTC144EK		R013	1-216-089-00		47K	5%	1/10W
0005	8-729-805-25	TRANSISTOR	2SB1121		R014	1-216-089-00		47K	5%	1/10W
0006	8-729-216-22	TRANSISTOR	2SA1162	Ī	R015	1-216-089-00	METAL CHIP	47K	5%	1/10W
Q007	8-729-216-22		28A1162		R016	1-216-089-00		47K	5%	1/10W
8000	8-729-901-06	TRANSISTOR	DTA144EK	ļ	R017	1-216-073-00		10K	5%	1/10W
0009	8-729-901-01		DTC144EK	1	R018	1-216-596-11		2. 7K	1%	1/10W
Q017	8-729-901-01		DTC144EK		R020	1-216-073-00		10K	5%	1/10W
Q102	8-729-140-98	TRANSISTOR	2SD773		R021	1-216-049-00	METAL CHIP	1 K	5%	1/10W
0201	8-729-100-66	TRANSISTOR	2SC1623		R022	1-216-162-00		33	5%	1/8W
Q202	8-729-100-66	TRANSISTOR	2SC1623		R023	1-216-162-00		33	5%	1/8W
0203	8-729-100-66	TRANSISTOR	2801623		R024	1-216-049-00		1 K	5%	1/0W
0204	8-729-100-66	TRANSISTOR	2801623		R025	1-216-069-00		6. 8K	5%	1/10W
Q207	8-729-216-22	TRANSISTOR	2SA1162		R026	1-216-069-00	METAL CHIP	6. 8K	5%	1/10W
0208	8-729-216-22	TRANSISTOR	2SA1162		R027	1-216-089-00	METAL CHIP	47K	5%	1/10W
0209	8-729-216-22	TRANSISTOR	2SA1162		R028	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
0210	8-729-216-22	TRANSISTOR	2SA1162		R044	1-216-017-00		47	5%	1/10W
Q211	8-729-100-66	TRANSISTOR	2SC1623		R050	1-216-073-00		10K	5%	1/10W
Q212	8-729-100-66	TRANSISTOR	2SC1623		R060	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
Q213	8-729-100-66	TRANSISTOR	2SC1623		R065	1-216-295-00		0	5%	1/10W
Q214	8-729-216-22		2\$A1162		R073	1-216-295-00		Ö	5%	1/10W
0215	8-729-216-22	TRANSISTOR	2SA1162		R075	1-216-049-00		1 K	5%	1/10W
0216	8-729-100-66	TRANSISTOR	2SC1623		R076	1-216-089-00		47K	5%	1/10W
0217	8-729-216-22		2SA1162		R099	1-216-295-00	METAL CHIP	0	5%	1/10W
Q218	8-729-100-66	TRANSISTOR	2801623		R107	1-216-045-00		680	5%	1/10W
0226	8-729-216-22		2SA1162		R108	1-216-061-00		3. 3K		1/10W
0228	8-729-216-22	TRANSISTOR	2SA1162		R109	1-216-073-00		10K	5%	1/10W
0229	8-729-901-01	TRANSISTOR	DTC144EK		R110	1-216-073-00		10K	5%	1/10W
Q230	8-729-901-01	TRANSISTOR	DTC144EK		R111	1-216-073-00	METAL CHIP	1 0 K	5%	1/10W
Q233	8-729-216-22		2SA1162	İ	R112	1-216-073-00		10K	5%	1/10W
Q236	8-729-100-66		2SC1623		R113	1-216-073-00		10K	5%	1/10W
0237	8-729-100-66	TRANSISTOR	2SC1623	1		1-216-073-00		10K	5%	1/10W
Q238	8-729-100-66	TRANSISTOR	2SC1623		R115	1-216-073-00		10K	5%	1/10W
Q239	8-729-100-66	TRANSISTOR	2801623		R116	1-216-073-00	METAL CHIP	10K	5%	1/10W
0240	8-729-901-01	TRANSISTOR	DTC144EK	1	R117	1-216-073-00	METAL CHIP	10K	5%	1/10W
0241	8-729-100-66		2SC1623	1	R118	1-216-049-00		1 K	5%	1/10W
Q242	8-729-100-66		2SC1623		R119	1-216-049-00		1 K	5%	1/10W
Q243	8-729-100-66	TRANSISTOR	2SC1623		R120	1-216-049-00		1 K	5%	1/10W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Descri	ption			Remark
R121	1-216-049-00	METAL CHIP	1 K	5%	1/10W	R216	1-216-296-00	METAL	CHIP	0	5%	1/8W
R122	1-216-049-00		1 K	5%	1/10W	R221	1-216-073-00			10K	5%	1/10W
R123	1-216-049-00		1 K	5%	1/10W	R222	1-216-049-00	METAL	CHIP	1 K	5%	1/10W
R124	1-216-073-00		10K	5%	1/10W	R223	1-216-073-00			10K	5%	1/10W
R125	1-216-073-00		10K	5%	1/10W	R224	1-216-049-00			1 K	5%	1/10W
KIZO	1-210-013-00	METAL GITT	IVK	374	17 1011	11224	1 210 040 00	me me	VIII.		••	,, , , , , ,
0126	1-216-073-00	METAL CHIP	10K	5%	1/10W	R225	1-216-073-00	METAL	CHIP	10K	5%	1/10W
R126	1-216-049-00		1 K	5%	1/10W	R226	1-216-049-00			1 K	5%	1/10W
R127	1-216-049-00		1 K	5%	1/10W	R229	1-216-049-00			1 K	5%	1/10W
R128			1 K	5%	1/10W	R230	1-216-091-00			56K	5%	1/10W
R129	1-216-049-00		1 K	5%	1/10W	R231	1-216-049-00			1 K	5%	1/10W
R132	1-216-049-00	METAL CHIP	IN	JA	1/ 1011	11201	1 210 043 00	MLIAL	VIIII	110	0/4	17 1011
0100	1 016 040 00	METAL CUID	1 K	5%	1/10W	R232	1-216-049-00	METAL	CHIP	1 K	5%	1/10W
R133	1-216-049-00			5%	1/10W	R233	1-216-089-00			47K	5%	1/10W
R134	1-216-049-00		1 K 1 K	5%	1/10W	R234	1-216-081-00			22K	5%	1/10W
R135	1-216-049-00			5%		R235	1-216-065-00			4. 7K	5%	1/10W
R136	1-216-295-00		0		1/10W					220		1/10W
R138	1-216-049-00	METAL CHIP	1 K	5%	1/10W	R236	1-216-033-00	METAL	Unir	220	5%	17 1011
		METAL AND	4.4	/	4 /4 AW	0007	1 010 005 00	METAL	AHID	4 70	Ca/	1 /100
R139	1-216-049-00		1 K	5%	1/10W	R237	1-216-065-00			4. 7K	5%	1/10W
R140	1-216-049-00		1 K	5%	1/10W	R238	1-216-043-00			560	5%	1/10W
R1.41	1-216-049-00		1 K	5%	1/10W	R239	1-216-065-00			4. 7K	5%	1/10W
R142	1-216-049-00		1 K	5%	1/10W	R240	1-216-033-00			220	5%	1/10W
R143	1-216-049-00	METAL CHIP	1 K	5%	1/10W	R241	1-216-065-00	METAL	CHIP	4. 7 K	5%	1/10W
5444		NETAL ADIA	4.1/	E 8/	1 /100	0040	1-216-035-00	METAI	AUID	270	5%	1/10W
R144	1-216-049-00		1 K	5%	1/10W	R242	1-216-053-00				5%	1/10W
R145	1-216-049-00		1 K	5%	1/10W	R243				1. 5K		
R146	1-216-073-00		10K	5%	1/10W	R244	1-216-055-00			1.8K 10K	5% 5%	1/10W 1/10W
R149	1-216-049-00		1 K	5%	1/10W	R246	1-216-073-00					
R152	1-216-073-00	METAL CHIP	10K	5%	1/10W	R247	1-216-295-00	METAL	CHIP	0	5%	1/10W
0150	1 016 072 00	METAL CUID	10K	5%	1/10W	R248	1-216-073-00	METAL	CHIP	10K	5%	1/10W
R153	1-216-073-00		10K	5%	1/10W	R249	1-216-049-00			1 K	5%	1/10W
R154				5%	1/10W	R250	1-216-057-00			2. 2K	5%	1/10W
R155	1-216-073-00		10K	5%	1/10W	R251	1-216-053-00			1. 5K	5%	1/10W
R156	1-216-073-00		10K	5%	1/10W	R251	1-216-121-00			1. JK	5%	1/10W
R157	1-216-097-00	MEIAL CHIP	100K	376	1/10#	NZUZ	1-210-121-00	MLIAL	VIIII	im	374	17 10M
R158	1-216-097-00	METAL CHIP	100K	5%	1/10W	R253	1-216-065-00	METAL	CHIP	4. 7K	5%	1/10W
R159	1-216-097-00		100K	5%	1/10W	R254	1-216-059-00			2. 7K	5%	1/10W
R160	1-216-097-00		100K	5%	1/10W	R255	1-216-063-00			3. 9K	5%	1/10W
R161	1-216-073-00		10K	5%	1/10W	R256	1-216-053-00			1. 5K	5%	1/10W
R162		METAL CHIP	1 K	5%	1/10W	R257	1-216-073-00			10 K	5%	1/10W
NIUL	1-210 043 0	MEINE VIII	i N	0/4	17 1011	""	. 210 010 0		VIII.	, •	*/*	.,
R201	1-216-073-0	METAL CHIP	10K	5%	1/10W	R258	1-216-121-00	METAL	CHIP	1M	5%	1/10W
R202	. •	METAL CHIP	1 K	5%	1/10W	R259	1-216-596-11			2. 7K		1/10W
R202		METAL CHIP	270	5%	1/10W	R260	1-216-518-00			2. 2K		1/10W
R204		METAL CHIP	47	5%	1/10W	R261	1-216-049-00			1K	5%	1/10W
R205		METAL CHIP	270	5%	1/10W	R262	1-216-049-00			1 K	5%	1/10W
NZ U J	1-210 000 0	MEINE OIII	210	٧,٠	17 1011	1	1 210 010 01		•		•/•	.,
R206	1-216-073-0	METAL CHIP	10K	5%	1/10W	R263	1-216-518-00	METAL	GLAZE	2. 2K	1%	1/10W
R207	1-216-049-0	METAL CHIP	1 K	5%	1/10W	R264	1-216-596-1	METAL	GLAZE	2.7K	1%	1/10W
R208	1-216-045-0	METAL CHIP	680	5%	1/10W	R265	1-216-049-0) METAL	CHIP	1 K	5%	1/10W
R209		METAL CHIP	1 K	5%	1/10W	R273	1-216-073-00	METAL	CHIP	10K	5%	1/10W
R210		METAL CHIP	680	5%	1/10W	R274	1-216-073-0) METAL	CHIP	10K	5%	1/10W
R211		METAL CHIP	1 K	5%	1/10W	R275	1-216-073-0			10K	5%	1/10W
R212		METAL CHIP	10K	5%	1/10W	R276	1-216-073-0			10K	5%	1/10W
R214	1-216-073-0	O METAL CHIP	10K	5%	1/10W	R277	1-216-073-0			10K	5%	1/10W
R215	1-216-073-0	O METAL CHIP	10K	5%	1/10W	R279	1-216-073-0) METAL	CHIP	10K	5%	1/10W

Ref. No.	Part No.	Descripti	on 		Remark	Ref. No.	Part No.	Description	n			emark
R281	1-216-049-00			5%	1/10\	R357	1-216-049-00	METAL CHIP	- 1 K	5%	1/10	H
R282	1-216-029-00	METAL CHI	P 150	5%	1/10W	R358	1-216-043-00	METAL CHIP	560	5%	1/10	N
R285	1-216-049-00	METAL CHI	P 1K	5%	1/10W	R359	1-216-049-00	METAL CHIP	1 K	5%	1/10	N
R289	1-216-049-00	METAL CHI	P 1K	5%	1/10W	R360	1-216-045-00	METAL CHIP	680	5%	1/10	
R290	1-216-057-00	METAL CHI	P 2. 2K	5%	1/10W	R363	1-216-049-00		1 K	5%	1/10	
R291	1-216-101-00	METAL CHI	P 150K	5%	1/10W	R364	1-216-073-00	METAL CHIP	10K	5%	1/109	W
R292	1-216-041-00	METAL CHI	P 470	5%	1/10W	R365	1-216-073-00		10K	5%	1/109	
R293	1-216-049-00	METAL CHI	P 1K	5%	1/10W	R366	1-216-049-00	METAL CHIP	1 K	5%	1/109	
R294	1-216-035-00	METAL CHI	P 270	5%	1/10W	R367	1-216-049-00		1 K	5%	1/109	
R295	1-216-053-00	METAL CHI	P 1.5K	5%	1/10W	R368	1-216-035-00		270	5%	1/10	
R296	1-216-097-00	METAL CHI	P 100K	5%	1/10W	R369	1-216-037-00	MFTAL CHIP	330	5%	1/104	U
R297	1-216-073-00			5%	1/10W	R370	1-216-045-00		680	5%	1/107	
R301	1-216-085-00			5%	1/10W	R371	1-216-017-00		47	5%		
R302	1-216-085-00			5%	1/10W	R372	1-216-045-00		680	5%	1/109	
R303	1-216-085-00			5%	1/10W	R373	1-216-049-00		1 K	5%	1/10V 1/10V	
R304	1-216-085-00	METAL CHIL	P 33K	5%	1/10W	0274	1 216 040 00	METAL AND		F44	4 /4 400	.,
R306	1-216-022-00			5%	1/10W	R374	1-216-049-00		1 K	5%	1/10W	
R307	1-216-049-00			5%	1/10W	R375	1-216-073-00		10K	5%	1/109	
R308	1-216-051-00			5%	· .	R376	1-216-025-00		100	5%	1/104	
R309	1-216-049-00			5%	1/10W	R377	1-216-049-00		1 K	5%	1/10%	
NSUS	1-210-049-00	MEIAL OILI	r ik	376	1/10W	R378	1-216-047-00	METAL CHIP	820	5%	1/10₩	1
R310	1-216-022-00			5%	1/10W	R379	1-216-057-00		2. 2K	5%	1/10₩	1
R312	1-216-051-00			5%	1/10W	R380	1-216-025-00	METAL CHIP	100	5%	1/10₩	1
R313	1-216-049-00			5%	1/10W	R381	1-216-057-00		2. 2K	5%	1/10₩	1
R315	1-216-073-00			5%	1/10W	R382	1-216-025-00	METAL CHIP	100	5%	1/10\	l .
R316	1-216-049-00	METAL CHIE	P 1K	5%	1/10W	R383	1-216-049-00	METAL CHIP	1 K	5%	1/10W	l
R317	1-216-022-00			5%	1/10W	R384	1-216-309-00	METAL CHIP	5. 6	5%	1/10W	ı
R318	1-216-049-00	METAL CHIE		5%	1/10W	R385	1-216-309-00	METAL CHIP	5. 6	5%	1/10W	I
R319	1-216-051-00	METAL CHIE	P 1. 2K	5%	1/10W	R389	1-216-295-00	METAL CHIP	. 0	5%	1/10W	
R320	1-216-022-00	METAL CHIE	P 75	5%	1/10W	R390	1-216-295-00		0	5%	1/10W	
R321	1-216-022-00	METAL CHIE	75	5%	1/10W	R391	1-216-295-00	METAL CHIP	0	5%	1/10W	
R322	1-216-049-00	METAL CHIE	P 1K	5%	1/10W	R402	1-216-021-00	METAL CHIP	68	5%	1/10W	ı
R324	1-216-295-00	METAL CHIE	0	5%	1/10W	R405	1-216-027-00		120	5%	1/10W	
R325	1-216-097-00	METAL CHIE	P 100K	5%	1/10W	1		me me on m	120	070	17 1011	
R327	1-216-051-00	METAL CHIE	1. 2K	5%	1/10W			< CRYSTAL >	,			
R328	1-216-073-00	METAL CHIE	10K	5%	1/10W			· OIIIOINE >				
						X101	1-577-133-21	VIBRATOR, C	RYSTAL 8MH	Z		
R329	1-216-073-00			5%	1/10W	X201	1-567-900-11				818MHz	
R330	1-216-073-00			5%	1/10W	X202	1-577-165-11	VIBLATOR, C	ERAMIC 500	kHz		
R331	1-216-073-00	METAL CHIP) 10K	5%	1/10W	******	*******				******	****
R336	1-216-295-00			5%	1/10W							
R340	1-216-295-00	METAL CHIP	0	5%	1/10W	*	A-7063-053-A			Ref. N	o. 2000	Series)
R341	1-216-073-00	METAL CHIP	, 10K	5%	1/10W			*******	*****			
R342	1-216-049-00	METAL CHIP		5%	1/10W			< CAPACITOR				
R350	1-216-073-00			5%	1/10W			· ON MOTION				
R351	1-216-077-00			5%	1/10W	C207	1-135-156-21	TANTAL III. OU	ID 6 0r		100/	1011
R352	1-216-081-00			5%	1/10W	C207					10%	10V
11445	. 2,0 001 00	VIIII	221	·/•	17 1 4 11	1	1-135-156-21				10%	107
R353	1-216-065-00	METAL CHID	4. 7K	5%	1/10W	C209	1-163-109-00				5%	50V
R354	1-216-065-00			5%	1/10W	C210	1-163-109-00				5%	50V
R355	1-216-065-00			5% 5%	•	C211	1-163-117-00	CERAMIC CHI	P 100PF		5%	50V
R356	1-216-049-00				1/10W	^^	1 100 447 44	0EB 444 5 5000				_
40 00	1-210-043-00	MLIAL GNIP	680	5%	1/10W	C212	1-163-117-00	CERAMIC CHI	P 100PF		5%	50V

FJ-12 FL-46

Ref. No.	Part No.	Description	ion Remark			Ref. No.	Part No.	Description			mark 	
C215	1-163-117-00	CERAMIC CHIP	100PF		5%	50V	C004	1-124-638-11	ELECT	22uF	20%	107
C216	1-163-117-00	CERAMIC CHIP	100PF		5%	50V	C005	1-124-638-11	ELECT	22uF	20%	10V
C217	1-163-009-11		0.001	uF	10%	50V	C006	1-126-157-11		10uF	20%	16V
C220	1-164-005-11		0. 47ul			25V	C007	1-126-157-11	ELECT	10uF	20%	16V
C221		CERAMIC CHIP	0. 47u			25V	C008	1-126-157-11	ELECT	10uF	20%.	16V
		< DIODE >					C009	1-163-035-00	CERAMIC CHIP	0. 047uF		50V
							C010	1-163-809-11	CERAMIC CHIP	0. 047uF	10%	25V
D201	8-719-104-34	DIODE 182836					C011	1-126-157-11	ELECT	10uF	20%	16V
D223	8-719-106-45	DIODE RD9. 1M-	В3				C012	1-163-035-00	CERAMIC CHIP	0. 047uF		50 V
D224	8-719-106-45	DIODE RD9. 1M-	B3				C013	1-163-035-00	CERAMIC CHIP	0. 047uF		50V
		< .10 >					C014	1-135-216-11	TANTALUM CHIP	10uF	20%	10V
							C015	1-163-038-00	CERAMIC CHIP	0.1uF		25V
10203	8-759-981-99	IC RC4560M-T1					C016	1-163-089-00	CERAMIC CHIP	6PF		50V
							C017	1-163-245-11	CERAMIC CHIP	56PF	5%	50 V
		< JACK >					C018	1-163-098-00	CERAMIC CHIP	16PF	5%	50V
J201	1-565-735-21	JACK, PIN 3P					C019	1-163-098-00	CERAMIC CHIP	16PF	5%	50V
							C020	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
		< CHIP JUMPER >					C021	1-164-232-11	CERAMIC CHIP	0. 01uF		50 V
							C441	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
JR201	1-216-296-00	METAL CHIP	0	5%	1/8W	i	C442	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
JR202	1-216-296-00	METAL CHIP	0	5%	1/8W							
JR203	1-216-295-00	METAL CHIP	0	5%	1/10W		C449	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
JR204	1-216-295-00	METAL CHIP	0	5%	1/10W		C450	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
							C451	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
		< RESISTOR >					C489	1-163-101-00	CERAMIC CHIP	22PF	5%	50 V
							C490	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
R235	1-216-001-00	METAL CHIP	10	5%	1/10W							
R236	1-216-105-00	METAL CHIP	220K	5%	1/10W		C495	1-163-101-00	CERAMIC CHIP	22PF	5%	50V
R237	1-216-105-00	METAL CHIP	220K		1/10W							
R238	1-216-105-00	METAL CHIP	220K	5%	1/10W				< OSCILLATOR :	>		
R239	1-216-105-00	METAL CHIP	220K	5%	1/10W		CENNI	1-567-132-00	OSCILLATOR, C	FRAMIC R OC	MH 7	
R240	1-216-073-00	METAL CHIP	10K	5%	1/10W			1 001 102 00	oooillanion, o	C11741111 0 0. 00	· · · · · · · · · · · · · · · · · · ·	
R241	1-216-073-00		10K	5%	1/10W				< CONNECTOR >			
R242	1-216-105-00		220K		1/10W				· OuthEuron /			
R243	1-216-105-00		220K		1/10W		CNOOL	1-575-365-11	CONNECTOR, FP	C/FFC 18P		
R250	1-216-015-00		39	5%	1/10W		,		CONNECTOR, FP	•		
11200	1 210 010 00	metric on it	••	•••	.,				CONNECTOR. FP			
R251	1-216-015-00		39	5%	1/10W				CONNECTOR, FP	· · · · · · · · · · · · · · · · · · ·		
******	*********	******	*****	****	*******	****			< TRIMMER >			
*	A-7063-048-A	FL-46 BOARD, COM		(Ref. l	No. 2000 S	eries)						
		******	*****				CT001	1-141-311-11	CAP, TRIMMER	20PF		
	1-575-386-11	CABLE, FLAT (1.	OMM PI	TCH)	18P		}		< DIODE >			
*		HOLDER (SU), LE		•]					
*		HOLDER (LEFT),		TION	TUBE		D001	8-719-920-05	LED SLP28	1C-50		
*		HOLDER (RIGHT).					D002	8-719-920-05				
*		HOLDER (HI), LE					D003	8-719-400-18				
•	5 5 TT 207 01	(111/) 66					D004	8-719-955-04				
		< CAPACITOR >					D005	8-719-955-04				
6444	1 100 151 11	FLEAT	47. F		0.04/		2000	0 710 400 40	DIADE MASSA	uu		
C001	1-126-154-11		47uF		20%	6. 3V	D006	8-719-400-18				
C002		CERAMIC CHIP	0.01u			50V	D007	8-719-812-31				
C003	1-104-232-11	CERAMIC CHIP	0.01	i f		50V	D008	8-719-400-18	DIODE MA152	T N		

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description			Remark
D009	8-719-920-05	LED SLP281C-50		R021	1-216-089-00	METAL CHIP	47K	5%	1/10W
D013	8-719-812-32	LED TLY123		R022	1-216-073-00		10K	5%	1/10W
D030	8-719-812-32	LED TLY123		R025	1-216-097-00		100K	5%	1/10W
D031	8-719-400-18	DIODE MA152WK		R026	1-216-097-00		100K	5%	1/10W
			İ	R027	1-216-097-00		100K	5%	1/10W
		< 10 >						• • • • • • • • • • • • • • • • • • • •	.,
				R028	1-216-097-00		100K	5%	1/10W
1C001				R029	1-216-097-00		100K	5%	1/10W
	1-466-131-21		İ	R030	1-216-097-00		100K	5%	1/10W
1C003	8-759-937-56			R031	1-216-097-00		100K	5%	1/10W
10004	8-759-941-78	-		R032	1-216-097-00	METAL CHIP	100K	5%	1/10W
10005	8-759-064-19	IC MB89794B-GDX620		2000					
10006	8-759-720-45	IC CAT35C202K	1	R033	1-216-097-00		100K	5%	1/10W
10000	0 103 120 40	10 CM1030202K		R034	1-216-097-00		100K	5%	1/10W
		< COIL >		R035	1-216-097-00		100K	5%	1/10W
		(0012)		R036	1-216-097-00		100K		1/10W
L001	1-407-169-XX	INDUCTOR 100uH		R037	1-216-097-00	METAL CHIP	100K	5%	1/10W
L002	1-407-169-XX			R038	1-216-097-00	METAL CUID	100K	5%	1 /1 000
L003	1-407-169-XX			R039	1-216-097-00		100K	5%	1/10W 1/10W
				R040	1-216-097-00		100K		1/10W
		< INDICATOR >		R041	1-216-097-00		100K	5%	1/10W
				R042	1-216-097-00		100K		1/10W
ND001	1-519-507-11	INDICATOR TUBE, FLUORESCENT	ĺ	11042	1 210 037 00	MICIAL VIIII	IUUK	376	1/1011
				R043	1-216-089-00	METAL CHIP	47 K	5%	1/10W
		< TRANSISTOR >		R044	1-216-041-00		470	5%	1/10W
				R045	1-216-033-00	METAL CHIP	220	5%	1/10W
Q001	8-729-901-47	TRANSISTOR DTA143EK		R046	1-216-081-00		22K	5%	1/10W
0002	8-729-901-47		1	R047	1-216-065-00		4. 7K	5%	1/10W
0003	8-729-216-22	· -							,
0020	8-729-901-01			R048	1-216-089-00	METAL CHIP	47K	5%	1/10₩
Q030	8-729-901-01	TRANSISTOR DTC144EK		R049	1-216-113-00		470K	5%	1/10W
				R050	1-216-113-00		470K	5%	1/10W
		< RESISTOR >		R051	1-216-049-00		1 K	5%	1/10W
0001	1 010 050 00	NETAL OUID 4 514 504		R052	1-216-049-00	METAL CHIP	1 K	5%	1/10W
R001 R002	1-216-053-00 1-216-053-00		1/10W						
R002			1/10W	R053	1-216-073-00		10K	5%	1/10W
R004	1-216-089-00		1/10W	R054	1-216-033-00		220	5%	1/10W
R005	1-216-035-00 1-216-035-00	= :	1/10W	R060	1-216-037-00		330	5%	1/10W
N003	1~210-033-00	METAL CHIP 270 5%	1/10W	R070	1-216-295-00		0	5%	1/10W
R006	1-216-089-00	METAL CHIP 47K 5%	1/10W	R071	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W
R007	1-216-089-00		1/10W	R072	1_016.065.00	METAL OHID	4 74	F8/	
R008	1-216-033-00		1/10W	R085	1-216-065-00		4. 7K		1/10W
R009	1-216-033-00		1/10W		1-216-037-00		330	5%	1/10W
R010	1-216-031-00		1/10W	R417 R418	1-216-049-00		1 K	5%	1/10W
1.0.0	1 210 001 00	METAL 01111 100 076	17 10 11	R419	1-216-049-00 1-216-049-00		1 K	5%	1/10W
R011	1-216-031-00	METAL CHIP 180 5%	1/10W	N413	1-210-049-00	MEIAL UNIP	1 K	5%	1/10W
R012	1-216-115-00		1/10W	R420	1-216-049-00	METAL CUID	1 K	5%	1/10W
R013	1-216-073-00		1/10W	R441	1-216-049-00		1 K		
R014	1-216-073-00		1/10W	R442	1-216-049-00		1 K	5% 5%	1/10W
R015	1-216-073-00		1/10W	R449	1-216-049-00		1 K	5% 5%	1/10W 1/10W
				R450	1-216-049-00		1 K	5%	1/10W
R016	1-216-073-00	METAL CHIP 10K 5%	1/10W				118	J/8	17 I VIII
R017	1-216-073-00		1/10W	R451	1-216-049-00	METAL CHIP	1 K	5%	1/10W
R018	1-216-073-00		1/10W	R488	1-216-049-00		1K	5%	1/10W
	1-216-073-00		1/10W	R489	1-216-295-00		0	5%	1/10W
R020	1-216-073-00	METAL CHIP 10K 5%	1/10W	R490	1-216-295-00		Ō	5%	1/10W
			•						

FL-46 FP-89 FP-90 FR-65

	Part No.	Description			Rem	ark	Ref. No.	Part No.	Descr	iption			emark
R495	1-216-049-00	METAL CHIP	1 K	5%	1/10W		*	A-7063-049-A		BOARD, COM		. No. 2000	Series)
		< SWITCH >						1-575-385-11	CARLE	FLAT (1.	OMM PITCH) 11P	
0001	1-553-856-00	CWITCH VEV	DOADD	(DOWED)]	*	3-689-521-01				,	
\$001	1-553-856-00					1	*	3-697-607-01					
S002 S003	1-553-856-00					ļ	•	3-731-123-01					
S004	1-553-856-00												
3004	1 000 000 00	On Trong RE	5071115	(0-2)			*	3-947-530-01	HOLDE	R, TERMIN	AL, S		
		< CRYSTAL >	•					7-627-552-38	SCREV	, PRECISIO	N +P 1.7X3		
X001	1-567-098-00	OSCILLATOR.	CRYSTA	AL (32.7	68kHz)				< CAF	ACITOR >			
*****	*********	********	******	******	*******	*****	0101	+ 100 000 00	AFBAL	HC CHID	0. 1uF		25V
		50 44 FI FVI	D. F. D. A	400 (D. (U. 0000		C101	1-163-038-00 1-163-038-00			0. 1uF		25V 25V
	1-628-060-12				NO. ZUUU 3	series)	C104 C105	1-135-156-21			6. 8uF	10%	
		*******	******	***		1	C105	1-135-156-21			6. 8uF	10%	
	3-728-869-02	HUIDED GENG	en P			Į	C118	1-163-109-00			47PF	5%	507
	3-128-809-02		OUN										
		< DIODE >					C119	1-163-109-00	CERAM	AIC CHIP	47PF	5%	50V
D301	8-719-820-44	TLP907-0 (S	SONY2)						< CO!	NNECTOR >			
		< TRANSISTO	OR >				CN104	1-575-360-11	CONN	ECTOR, FPC	/FFC 5P		
							CN105	1-575-362-11	CONN	ECTOR, FPC	/FFC 11P		
0301	8-729-906-48	EE-TP109					CN106	1-575-365-11	CONN	ECTOR, FPC	/FFC 18P		
		< SWITCH >					!		< D1	ODE >			
\$301	1-572-173-11	SWITCH SLIE	DE (ENC	ODER)			D106	8-719-106-45	DIOD				
\$303	1-571-099-11						D107	8-719-106-45					
*****	*********	*******	******	*****	*******	****	D108	8-719-106-45					
							D109	8-719-106-45					
	1-628-061-12	PP-90 FLEX!			No. 2000	Series)	D110	8-719-106-45	DIOD	E RD9.1N	I-83		
							D111	8-719-400-18	DIOD	E MA152V	/K		
	3-728-837-0	HOLDER LED					D113	8-719-301-49	LED	SEL 281			
	3-728-869-00	HOLDER SENS	SOR				D114	8-719-301-49		SEL281			
							D115	8-719-920-05		SLP281			
		< DIODE >					D116	8-719-920-05	LED	SLP281	C-50		
D302	8-719-940-8	1 GL-452S					D117	8-719-812-32	LED	TLY123	1		
D303		1 TLP907-0 (SONY2)				1	8-719-920-05		SLP281	IC-50		
5000	• • • • • • • • • • • • • • • • • • • •						D119	8-719-920-0	LED	SLP281	IC-50		
		< TRANSIST	OR >				D120	8-719-812-3	LED	TLR123	3		
Q302	8-729-906-4	8 EE-TP109							< 10	>			
		< SWITCH >					1	8-759-981-99					
	4 670 000 4	1 00/1701 0110	u (pro	DD00E/T	ADE CELEA	T) .	10102	8-759-981-99	, 16	MUDUPUN			
	1-572-298-1 *********								< JA	CK >			
							J102	1-566-850-3	1 CONN	ECTOR, (S)	TERMINAL	4P	
							1						

Ref. No.	Part No.	Descr	iption			Remark	Ref. No.	Part No.	Description			Remark
		< CHI	P JUMPER	>			1	1-216-296-00	METAL CHIP	0	5%	1/8W
							1	1-216-296-00		0	5%	1/8W
JR101	1-216-296-00	METAL	CHIP	0	5%	1/8W		1-216-296-00		0	5%	1/8W
JR102	1-216-295-00			Ö	5%	1/10W		1-216-295-00		0	5%	•
JR103	1-216-296-00			Ö	5%	1/8W		1-216-296-00		0	5%	1/10W
	1-216-296-00			Ö	5%	1/8W	011102	1 210-230-00	MLIAL CHIP	U	J76	1/8W
				0	5%	1/8W	10152	1-216-296-00	METAL OILD	۸	F8/	4 (81)
011100	1 210 200 00	mc i ii	01111	v	576	1/ 011				. 0	5%	1/8W
18106	1-216-296-00	METAL	CHID	0	5%	1/8W		1-216-296-00		0	5%	1/8W
	1-216-296-00			0	5%	1/8W		1-216-296-00		0	5%	1/8W
	1-216-296-00			0	5%	•	38137	1-216-296-00	METAL CHIP	0	5%	1/8W
				0	5%	1/8W	JK138	1-216-296-00	METAL CHIP	0	5%	1/8W
	1-216-296-00			0		1/10W						
JULIO	1-210-290-00	MEIAL	CHIP	U	5%	1/8W			< TRANSISTOR	>		·
JR111	1-216-295-00	METAL	CHIP	0	5%	1/10W	Q101	8-729-901-01	TRANSISTOR	DTC144EK		
JR112	1-216-295-00	METAL	CHIP	0	5%	1/10W				D. 01 112K		
JR113	1-216-296-00	METAL	CHIP	0	5%	1/8W	1		< RESISTOR >			
JR114	1-216-296-00	METAL	CHIP	0	5%	1/8W						
JR115	1-216-295-00	METAL	CHIP	0	5%	1/10W	R101	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
							R102	1-216-061-00		3. 3K		1/10W
JR116	1-216-295-00	METAL	CHIP	0	5%	1/10W	R103	1-216-065-00		4. 7K		1/10W
JR117	1-216-296-00	METAL	CHIP	0	5%	1/8W	R104	1-216-057-00		2. 2K		1/10W
	1-216-295-00			0	5%	1/10W	R105	1-216-057-00		2. 2K		1/10W
	1-216-296-00			0	5%	1/8W				L. L.	070	17 1011
JR120	1-216-295-00	METAL	CHIP	0	5%	1/10W	R106	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W
						•	R107	1-216-057-00			5%	1/10W
JR121	1-216-295-00	METAL	CHIP	0	5%	1/10W	R108	1-216-037-00		330	5%	1/10W
JR122	1-216-296-00	METAL	CHIP	0	5%	1/8W	R109	1-216-037-00		330	5%	1/10W
	1-216-296-00			0	5%	1/8W	R110	1-216-037-00		330	5%	1/10W
JR124	1-216-296-00	METAL	CHIP	0	5%	1/8W		. 210 001 00	WEINE VIII	000	V/8	1/ 10H
JR125	1-216-296-00	METAL	CHIP	0	5%	1/8W	R111	1-216-037-00	METAL CHIP	330	5%	1/10W
							R112	1-216-037-00		330	5%	1/10W
JR126	1-216-295-00	METAL	CHIP	0	5%	1/10W	R113	1-216-037-00		330	5%	•
	1-216-295-00			Ō	5%	1/10W	R114	1-216-037-00		330	5%	1/10W
	1-216-296-00			Ö	5%	1/8W	R115	1-216-081-00		22K	5%	1/10W
	1-216-296-00			Ō	5%	1/8W	1 "'''	1 210 001 00	MEINE OHII	22 K	376	1/10W
	1-216-296-00			Ô	5%	1/8W	R116	1-216-073-00	METAL CHIP	10K	5%	1/10W
						., •		1-216-071-00		8. 2K	5%	1/10W
JR131	1-216-295-00	METAL	CHIP	0	5%	1/10W	R118	1-216-083-00		27K	5%	· · · · · · · · · · · · · · · · · · ·
	1-216-296-00			Ö	5%	1/8W	1	1-216-295-00		8	5%	1/10W
	1-216-296-00			ō	5%	1/8W	R120	1-216-295-00		0	5%	1/10W
	1-216-296-00			Ö	5%	1/8W	1 "120	1 210 233 00	MILIAL VIIII	U	376	1/10W
JR135	1-216-295-00	METAL	CHIP	0	5%	1/10W	R121	1-216-083-00	METAL CHID	27K	5%	1 /1014
			•	•	• • • • • • • • • • • • • • • • • • • •	1, 1011		1-216-071-00				1/10W
JR136	1-216-295-00	METAL	CHIP	0	5%	1/10W		1-216-069-00		8. 2K		1/10W
	1-216-296-00			Ö	5%	1/8W		1-216-069-00		6.8K 6.8K		1/10W
JR138	1-216-296-00			0	5%	1/8W		1-216-069-00				1/10W
JR139	1-216-296-00			Ō	5%	1/8W	1 1121	1 210 003 00	WEINE OHIF	U. OK	5%	1/10W
JR140	1-216-295-00			Ö	5%	1/10W	R128	1-216-079-00	METAL CUID	107	Ca/	1 /100
				٠	V/•	.,		1-216-079-00		18K	5% 5v	1/10W
JR141	1-216-296-00	METAI	CHIP	0	5%	1/8W	1	1-216-079-00		100	5%	1/10W
	1-216-296-00			0	5%	1/8W		1-216-069-00		18K	5%	1/10W
JR143	1-216-296-00			0	5%	1/8W				6. 8K	5%	1/10W
	1-216-296-00			0	5%	1/8W	, KISZ	1-216-025-00	METAL CHIP	100	5%	1/10W
	1-216-296-00			0	5%	1/8W	D122	1_016_001_00	METAL AULD		F0/	4.44400
V., 1 TV	. 2,0 200 00	I NL	V.111	v	074	1/ 011		1-216-021-00		68	5%	1/10W
JR146	1-216-296-00	MFTAI	CHIP	0	5%	1/8W		1-216-021-00		68	5%	1/10W
	1-216-296-00			0	5%	1/8W		1-216-015-00		39	5%	1/10W
******	. 1.0 200 00			٧	V/4	17 011	1 1140	1-216-015-00	METAL CHIP	39	5%	1/10W

FR-65 IN-42 MC-79

	Part No.	Description	Remark	Ref. No.	Part No.	Description			Rema	rk
R148	1-216-065-00	METAL CHIP 4.7K 5%	1/10W			< CHIP JUMPER	>			
R149	1-216-037-00		1/10W							
R160	1-216-057-00		1/10W	JR501	1-216-296-00	METAL CHIP	0	5%	1/8₩	
R161	1-216-057-00		1/10W	JR502	1-216-296-00	METAL CHIP	0	5%	1/8W	
R171	1-216-015-00		1/10W	JR504	1-216-296-00	METAL CHIP	0	5%	1/8W	
11.1.1	. 2.0 0.0 00		.,	JR505	1-216-296-00	METAL CHIP	0	5%	1/8W	
R172	1-216-015-00	METAL CHIP 39 5%	1/10W		1-216-296-00		0	5%	1/8W	
11112	1 210 010 00	me the offi	.,						·	
		< VARIABLE RESISTOR >		JR507	1-216-296-00	METAL CHIP	0	5%	1/8W	
		Thirties in the second of the			1-216-296-00		0	5%	1/8W	
DV101	1_227_877_11	RES. VAR. SLIDE 10K/10K	REC LEVEL)		1-216-296-00		0	5%	1/8W	
		RES. VAR. CARBON 10K/10K			1-216-296-00		0	5%	1/8W	
NVIUZ	1-230-314-11	NES, TAR, CARDON TORY TOR	(I HOME ECTEL)		1-216-296-00		Ö	5%	1/8W	
		< SWITCH >		011012			•		.,	
		37110117		18513	1-216-296-00	METAL CHIP	0	5%	1/8W	
0101	1 550 056 00	SWITCH, KEY BOARD (INPUT	GELECT)		1-216-296-00		Õ	5%	1/8W	
\$101		SWITCH, KEY BOARD (TAPE S			1-216-295-00		0	5%	1/10W	
\$102	1-333-830-00	SWITCH, KEY BOARD (COUNTE	D DECETY		1-216-296-00		0	5%	1/8W	
\$103					1-216-296-00		0	5%	1/8W	
\$105		SWITCH, KEY BOARD (TV/VTF		74910	1-210-290-00	MEINE CHIP	v	378	17 011	
\$106	1-333-830-00	SWITCH, KEY BOARD (STANDE)17)	10510	1-216-296-00	METAL CHID	0	5%	1/8W	
0447	4 570 054 44	OWLTON OLIDE (AUDIO MONI	TAD)		1-216-296-00		0	5%	1/8W	
\$107		SWITCH, SLIDE (AUDIO MONI	•							
\$108		SWITCH, KEY BOARD (PLAYER			1-216-296-00		0	5%	1/8W	
\$109		SWITCH, KEY BOARD (RECORD			1-216-296-00		0	5%	1/8W	
\$110		SWITCH, KEY BOARD (FRAME		JK524	1-216-296-00	METAL CHIP	0	5%	1/8W	
\$111	1-553-856-00	SWITCH, KEY BOARD (SYNCRO) EDII)						4 /4 8111	
					1-216-295-00		0	5%	1/10W	
		SWITCH, KEY BOARD (FRAME			1-216-296-00		0	5%	1/8W	
******	*********	**********	******		1-216-295-00		0	5%	1/10W	
					1-216-295-00		0	5%	1/10W	
*	A-7063-056-A	, IN-42 BOARD, COMPLETE (Ref.	No.5000 Series)	JR529	1-216-296-00	METAL CHIP	0	5%	1/8W	

					1-216-296-00		0	5%	1/8W	
	3-831-441-XX	CUSHION (5)		JR531	1-216-295-00	METAL CHIP	0	5%	1/10W	
										,
		< CONNECTOR >				< TRANSISTOR	>			
CN501	1-506-484-11	CONNECTOR 5P, MALE		Q001	8-729-901-00	TRANSISTOR	DTC124EK			
		CONNECTOR (PLUG) 18P		0002	8-729-901-00		DTC124EK			
CN502		CONNECTOR 2P, MALE		0003	8-729-901-00		DTC124EK			
		CONNECTOR (PLUG) 26P		0004	8-729-901-00		DTC124EK			
		CONNECTOR (PLUG) 30P								
+ UNUVV	. 000 000 1					< RESISTOR >				
* CN508	1-568-098-11	CONNECTOR (PLUG) 30P		1						
		CONNECTOR, FLEXIBLE 28P		R001	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
* CN508		PIN, CONNECTOR 14P		R003	1-216-081-00		22K	5%	1/10W	
* CN509		PIN, CONNECTOR 16P		R004	1-216-059-00		2. 7K		1/10W	
		PIN, CONNECTOR 20P		R005	1-216-073-00		10K	5%	1/10W	
+ JRVIV	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				******					****
* CN511	1-565-060-1	PIN, CONNECTOR 16P								
		PIN, CONNECTOR 14P		*	A-7063-051-A	MC-79 BOARD,	COMPLETE	Ref. No	. 2000 S	eries)
		CONNECTOR, FLEXIBLE 30P			vor n	*******				,
		CONNECTOR 2P, MALE								
UN 0 1 4	1-000-401-1	OUNTEDION 21, MALL]		< CAPACITOR :	>			
		< DIODE >				· van aviivii	•			
		. 51452 /		C601	1-126-177-11	ELECT	100uF		20%	10V
D001	8-719-400-1	B DIODE MA152WK		C602	1-126-177-11		100uF		20%	107
ויייטע	J 11J 400-10	, D. TOL MAIIVERN		C603		CERAMIC CHIP	180PF		5%	50V
				1		- Linimit VIIII			***	

Ref. No.	Part No.	Description		Re	mark	Ref. No.	Part No.	Description		Re	mark
C604	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	 50V	R604	1_216.105.00	METAL CUID	0004 504		
C605	1-126-301-11		1uF	20%	50V	R605	1-216-105-00 1-216-059-00		220K 5%	1/10W	
C606		CERAMIC CHIP	100PF	5%	50V	R608	1-216-069-00		2.7K 5%	1/10W	
C607		CERAMIC CHIP	100PF	5%	50V	R609	1-216-071-00		6.8K 5% 8.2K 5%	1/10W	
C608	1-124-584-00		100uF	20%	107	R610	1-216-097-00			1/10W	
*****	1 127 507 50		10001	20%	101	1010	1-210-031-00	MEINE CHIP	100K 5%	1/10W	'
C609		CERAMIC CHIP	0.001uF	10%	50V	R611	1-216-073-00		10K 5%	1/10W	
C610		CERAMIC CHIP	0.0068uF	10%	50V	R612	1-216-121-00		1M 5%	1/10W	!
C611		CERAMIC CHIP	0.0068uF	10%	50V	R613	1-216-065-00		4.7K 5%	1/10W	1
C612 C613		CERAMIC CHIP	0. 0022uF	10%	100V	R614	1-216-065-00		4.7K 5%	1/10W	
0013	1-103-123-00	CERAMIC CHIP	180PF	5%	50V	R615	1-216-065-00	METAL CHIP	4.7K 5%	1/10W	
C614	1-124-638-11	ELECT	22uF	20%	10V	R616	1-216-073-00	METAL CHIP	10K 5%	1/10W	
C615	1-126-153-11		22uF	20%	6.3V	R617	1-216-057-00	METAL CHIP	2. 2K 5%	1/10W	
C616	1-126-157-11		10uF	20%	16V	*****	*******	*******	******	*****	****
C617	1-126-157-11		10uF	20%	16V						
C618	1-126-301-11	ELECT	1uF	20%	50V	*	A-7063-052-A	PC-56 BOARD, COM	APLETE (Ref. 1	lo. 9000	Series)
								**********			,
C619		CERAMIC CHIP	0.001uF	10%	50V						
C620	1-163-117-00		100PF	5%	50V		3-710-578-01	COVER, VOLUME,	6 MOLD		
C621	1-163-117-00		100PF	5%	50V						
C622	1-163-117-00	CERAMIC CHIP	100PF	5%	50 V			< CAPACITOR >			
		< CONNECTOR >				C401	1-126-233-11	ELECT	22uF	20%	50V
						C402	1-126-233-11		22uF	20%	50 V
CN601	1-575-367-11	CONNECTOR, FPC/	FFC 11P			C403	1-163-035-00	CERAMIC CHIP	0. 047uF	20/0	50V
						C404	1-163-035-00		0. 047uf		50V
		< DIODE >				C407	1-163-093-00		10PF	5%	50V
D601	8-719-106-45	DIODE RD9. 1M-E	33			C408	1-163-093-00	CERAMIC CHIP	10PF	5%	EAN
D602	8-719-106-45	-				C409	1-163-031-11	CERAMIC CHIP	0. 01uF	376	50V
D603	8-719-106-45					C410	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
0604	8-719-106-45					C411	1-163-035-00		0. 047uF		50V
D607	8-719-106-45					C412	1-124-126-00		47uF	20%	50V 10V
						V.,2			4101	2070	1 U V
D608	8-719-106-45	DIODE RD9. 1M-E	33			C413	1-163-035-00	CERAMIC CHIP	0.047uF		50V
						C414	1-124-443-00		100uF	20%	10V
		< 10 >				C420	1-126-233-11		22uF	20%	50V
10001	0 750 141 50	10				C421	1-126-233-11		22uF	20%	50V
10001	8-759-111-56	IC uPC4572G2				C502	1-163-035-00	CERAMIC CHIP	0. 047uF		50V
		< JACK >				C503	1-163-035-00	CERAMIC CHIP	0. 047uF		50V
						C504	1-163-031-11		0. 01uF		50V
J601		JACK, ULTRA SMAL				C505	1-163-035-00	CERAMIC CHIP	0. 047uF		50V
J602		JACK, SMALL TYPE				C506	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V
J603	1-562-917-11	JACK (SMALL TYPE	:)			C507	1-124-239-00		6. 9uF	20%	10V
		< TRANSISTOR >				C508	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V
						C510	1-163-031-11		0. 14f	1 0 76	
0602	8-729-100-66	TRANSISTOR 2SC	1623	*		C516	1-163-031-11		0. 01uF		50V
Q603	8-729-100-66		1623			C517	1-163-035-00		0. 01ur 0. 047uF		50V
0604	8-729-100-66		1623			C536	1-163-035-00				50V
						0000	1 100-000-00	OLNAMIO UNIF	0. 047uF		50V
		< RESISTOR >				C539	1-163-031-11		0. 01uF		50V
0001	1 010 000 00	METAL AULA	A 3 11 - · ·				1-163-031-11		0.01uF		50 V
R601	1-216-083-00		27K 5%	1/10W		C557	1-164-232-11		0.01uF		50V
	1-216-025-00		100 5%	1/10W		C558	1-163-009-11		0.001uF	10%	50 V
R603	1-216-081-00	METAL CHIP	22K 5%	1/10W		C607	1-164-005-11	CERAMIC CHIP	0. 47uF		25V

Ref. No.		Description			mark	Ref. No.	Part No.	Description			mark
C608	1-164-005-11	CERAMIC CHIP	0. 47uF		25V	C673	1-163-035-00	CERAMIC CHIP	0. 047uF		50V
C611	1-124-907-11		10uF	20%	50V	C674	1-163-035-00	CERAMIC CHIP	0. 047uF		50V
C612	1-124-907-11		10uF	20%	50V	C704	1-126-157-11	ELECT	10uF	20%	16V
C613	1-124-907-11		10uF	20%	50V	C705			100PF	5%	50V
C614	1-124-907-11		10uF	20%	50V	C706	1-124-443-00		100uF	20%	10V
C615	1-163-035-00	CERAMIC CHIP	0. 047uF		50V	C707	1-124-443-00	ELECT	100uF	20%	10V
C616	1-163-035-00	CERAMIC CHIP	0. 047uF		50V	C708	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C619		CERAMIC CHIP	0. 047uF		50V	C713	1-126-157-11	ELECT	10uF	20%	16V
C620		CERAMIC CHIP	0. 047uF		50V	C714	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C621	1-124-442-00		330uF	20%	6. 3V	C715	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C622	1-124-442-00	ELECT	330uF	20%	6. 3V	C716	1-163-035-00	CERAMIC CHIP	0. 047uF		50V
C623		CERAMIC CHIP	47PF	5%	50V	C717	1-124-443-00	ELECT	100uF	20%	10V
C624		CERAMIC CHIP	47PF	5%	50V	C718	1-126-233-11	ELECT	22uF	20%	50V
C625		CERAMIC CHIP	47PF	5%	50V	C719		ELECT	22uF	20%	50V
C626		CERAMIC CHIP	47PF	5%	50V	C731		CERAMIC CHIP	0. 047uF		50V
C629	1-124-126-00	FLECT	47uF	20%	10V	C734	1-163-017-00	CERAMIC CHIP	0. 0047uF	5%	50V
C630	1-124-126-00		47uF	20%	100	C735		CERAMIC CHIP	0. 047uF		50V
C633		CERAMIC CHIP	0. 047uF	20%	500	C736	1-124-443-00		100uF	20%	107
C634		CERAMIC CHIP	0. 047uF		50V	C737		CERAMIC CHIP	0. 01uF		50V
		CERAMIC CHIP	0. 047uF		50V	C739		CERAMIC CHIP	0. 047uF		50V
C635	1-103-033-00	CENAMIC CHIE	0. 04701		304	0103			0. 04rui		
C636	1-163-035-00	CERAMIC CHIP	0. 047uF		50V	C740		CERAMIC CHIP	0. 047uF		50V
C637	1-124-442-00	ELECT	330uF	20%	6. 3V	C741	1-163-035-00	CERAMIC CHIP	0. 047uF		50 V
C638	1-124-442-00	ELECT	330uF	20%	6. 3V	C742	1-163-035-00	CERAMIC CHIP	0.047uF		50 V
C640	1-124-907-11	ELECT	10uF	20%	50V	C743	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C642	1-124-126-00		47uF	20%	10V	C744	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C643	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V	C745	1-163-035-00	CERAMIC CHIP	0. 047uF		50 V
C644	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	C746		CERAMIC CHIP	47PF	5%	50V
C645	1-163-124-00	CERAMIC CHIP	200PF	5%	50V	C747	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C646	1-124-925-11	I ELECT	2. 2uf	20%	1007	C748	1-163-035-00	CERAMIC CHIP	0. 047uF		50V
C647	1-124-464-1		0. 22uF	20%	50V	C749	1-163-035-00	CERAMIC CHIP	0. 047uF		50V
C648	1-131-377-00		10uF	10%	10V	C750	1-126-177-11	I ELECT	100uF	20%	10V
C649	1-164-161-1	CERAMIC CHIP	0. 0022uF	10%	100V	C752	1-126-157-11	I ELECT	10uF	20%	16V
C650	1-124-927-1	I ELECT	4. 7uF	20%	100V	C755	1-163-035-00	CERAMIC CHIP	0.047uF		50 V
C651	1-124-126-00		47uF	20%	107	C756	1-163-035-00	CERAMIC CHIP	0. 047uF		50 V
C654	1-124-907-1	1 ELECT	10uF	20%	50V	C757	1-124-499-11	I ELECT, NONPOLAR	1uF	20%	50V
C657	1-124-126-0	ELECT	47uF	20%	10V	C758	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C658		1 CERAMIC CHIP	0.001uF	10%	50V	. C759	1-163-227-11	I CERAMIC CHIP	10PF	5%	50 V
C659	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	C760	1-163-091-00	CERAMIC CHIP	8PF		50V
C660		CERAMIC CHIP	200PF	5%	50V	C761	1-163-035-00	CERAMIC CHIP	0. 047uF		50 V
C661	1-124-925-1		2. 2uF	20%	100V	C762	1-163-035-00	CERAMIC CHIP	0. 047uF		50V
C662	1-124-464-1	1 ELECT	0. 22uF	20%	50V	C763	1-163-035-06	CERAMIC CHIP	0. 047uF		50V
C663	1-131-377-0	O TANTALUM	10uF	10%	10V	C765	1-163-035-00	CERAMIC CHIP	0. 047uF		50 V
C664		1 CERAMIC CHIP	0. 0022uF	10%	100V	C766	1-163-137-00	CERAMIC CHIP	680PF	5%	50 V
C665	1-124-927-1		4. 7uF	20%	100V	C767	1-163-035-00	CERAMIC CHIP	0.047uF		50 V
C666	1-124-126-0		47uF	20%	10V	C768		CERAMIC CHIP	0.047uF		50V
C667	1-124-126-0	O ELECT	47uF	20%	10V	C769	1-124-443-00) ELECT	100uF	20%	107
C669	1-124-443-0		100uF	20%	107	C770		1 CERAMIC CHIP	0.01uF		50V
C671		O CERAMIC CHIP	220PF	5%	50V	C771	1-124-126-00		47uF	20%	107
C672		O CERAMIC CHIP	0. 047uF		50V	C772		CERAMIC CHIP	0. 047uF		50V
0012											

Ref. No.	Part No.	Description			emark	Ref. No.	Part No.	Description		R	Remark
C773		CERAMIC CHIP	0. 047uF		50V	C867	1-163-016-00	CERAMIC CHIP	0. 0039uF	10%	50V
C776	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	C868		CERAMIC CHIP	0.0039uF	10%	50V
C801	1-163-035-00	CERAMIC CHIP	0. 047uF		50 V	C869		CERAMIC CHIP	220PF	5%	50V
C803	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	C870		CERAMIC CHIP	220PF	5%	50V
C804	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	C871	1-124-907-11		10uF	20%	50V
C805		CERAMIC CHIP	0. 01uF		50V	C872	1-163-018-00	CERAMIC CHIP	0. 0056uF	5%	50V
C807		CERAMIC CHIP	680PF	5%	50V	C873	1-163-024-00	CERAMIC CHIP	0.018uF	10%	50 V
C808	1-124-902-00		0. 47uF	20%	50 V	C874	1-163-986-00	CERAMIC CHIP	0. 027uF	10%	25V
C809		CERAMIC CHIP	0. 0015uF	10%	50 V	C880	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
C810	1-163-016-00	CERAMIC CHIP	0. 0039uF	10%	50V	C881	1-163-034-00	CERAMIC CHIP	0. 033uF		50V
C811		CERAMIC CHIP	220PF	5%	50V	C882	1-163-009-11	CERAMIC CHIP	0. 001uF	10%	50V
C812		CERAMIC CHIP	0. 0022uF	10%	1007	C883	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C813	1-124-443-00		100uF	20%	107	C901	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C814		CERAMIC CHIP	0. 047uF		50 V	C903	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
C815	1-164-232-11	CERAMIC CHIP	0.01uF		50V	C904	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
C816	1-124-925-11		2. 2uF	20%	100V	C905		CERAMIC CHIP	0.01uF		50V
C817	1-163-088-00		5PF		50V	C907	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C818	1-163-009-11		0. 001uF	10%	50V	C908	1-124-902-00		0. 47uF	20%	50V
C819	1-163-005-11		470PF	10%	50V	C909	1-163-011-11		0.0015uF	10%	50 V
C821	1-124-903-11	ELECT	1uF	20%	50V	C910	1-163-016-00	CERAMIC CHIP	0. 0039uF	10%	50V
C822	1-163-088-00	CERAMIC CHIP	5PF		50V	C911	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C823	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	C912	1-164-161-11		0. 0022uF	10%	100V
C824	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	C913	1-124-443-00		100uF	20%	100
C825	1-162-587-11		0. 039uF	10%	25V	C914	1-163-035-00		0. 047uF	2070	50V
C826	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	C915	1-164-232-11		0. 01uF		50V
C827	1-163-020-00	CERAMIC CHIP	0. 0082uF	10%	50V	C916	1-124-925-11	FLECT	2. 2uF	20%	100V
C828	1-124-464-11	ELECT	0. 22uF	20%	50V	C917	1-163-088-00		5PF	2070	50V
C829	1-131-377-00	TANTALUM	10uF	10%	100	C919	1-163-005-11		470PF	10%	50V
C830	1-124-907-11	ELECT	10 u F	20%	50V	C921	1-124-903-11		1uF	20%	50 V
C831	1-126-233-11	ELECT	22uF	20%	50V	C922	1-163-088-00		5PF	2070	50V
C832	1-124-443-00	ELECT	100uF	20%	107	C923	1-163-017-00	CERAMIC CHIP	0. 0047uF	5%	50 V
C833	1-163-035-00	CERAMIC CHIP	0. 047uF		50 V	C924	1-163-125-00		220PF	5%	50V
C834	1-124-443-00	ELECT	100uF	20%	·10V	C925	1-162-587-11		0. 039uF	10%	25V
C836	1-163-257-11		180PF	5%	50V	C926	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C837	1-164-161-11	CERAMIC CHIP	0. 0022uF	10%	100V	C927	1-163-020-00	CERAMIC CHIP	0.0082uF	10%	50V
C838	1-163-011-11		0.0015uF	10%	50V	C928	1-124-464-11	ELECT	0. 22uF	20%	50V
C840	1-163-031-11		0. 01uF		50V	C929	1-131-377-00	TANTALUM	10uF	10%	107
	1-163-031-11		0. 01uF		50V	C930	1-124-907-11	ELECT	10uF	20%	50V
C842	1-164-232-11		0. 01uF		50 V	C931	1-126-233-11	ELECT	22 u F	20%	50V
C843	1-163-031-11	CERAMIC CHIP	0.01uF		50V	C932	1-124-443-00	ELECT	100uF	20%	10V
C844	1-163-031-11		0. 01uF		50V	C933	1-163-035-00	CERAMIC CHIP	0. 047uF		50V
C850	1-126-233-11		22uF	20%	50V	C934	1-124-443-00	ELECT	100uF	20%	107
C851	1-124-443-00		100uF	20%	10V	C936	1-163-257-11	CERAMIC CHIP	180PF	5%	50V
C852	1-124-443-00		100uF	20%	10V	C937	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C853	1-124-927-11	ELECT	4. 7uF	20%	100V	C938	1-163-011-11		0. 0015uF	10%	50V
	1-124-927-11		4. 7uF	20%	100V	C940	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
C855	1-124-907-11		10uF	20%	50V	C941	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
	1-163-011-11		0. 0015uF	10%	50V	C942	1-163-019-00		0.0068uF	10%	50V
C866	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V	C943	1-163-031-11	CERAMIC CHIP	0. 01uF		50V

Ref. No.	Part No.	Description			nark		Part No.		ription		Remark
			0 01E		50V	10700	8-759-908-15		TL431CLP	,	
C944	1-163-031-11		0. 01uF 10uF	20%	50V		8-752-033-01		CXA1237AF	₹ ,	
C957	1-124-907-11 1-163-018-00		0. 0056uF	5%	50V		8-759-998-71		BA3308F	. ,	
C972 C973	1-163-024-00	CERAMIC CHIP	0. 018uF	10%	50V		8-752-033-01		CXA1237AF	₹ .	
C974	1-163-986-00		0. 027uF	10%	25V		8-759-009-06		MC14052BI		
6314	1-103-300-00	CENTANTO OTTO	0. 02 / 01	1070		10002	•	, -			
		< CONNECTOR >					8-759-009-06 8-759-981-99		MC14052BI	F	
CNECT	1_569_094_11	CONNECTOR (RECEI	PTALE) 30P				8-759-981-99		RC4560M		
CNEO	1-568-084-11	CONNECTOR (RECEI	PTALE) 30P				8-759-981-99		RC4560M		
	1-506-477-11		12P, MALE		ļ.						
	1-506-470-11		5P. MALE		1			< C0	IL >		
	1-506-477-11		12P, MALE								
					,	L401	1-407-169-XX	INDU	CTOR	100uH	
CN701	1-506-468-11	CONNECTOR	3P, MALE			L704	1-407-169-XX	INDU	CTOR	106uH	
						L705	1-407-169-XX	INDU	CTOR	100uH	
		< TRIMMER >			1	L706	1-408-970-21			10 u H	
						L707	1-408-970-21	INDU	CTOR	10uH	
CV701	1-141-227-00	CAP, TRIMMER	20PF								
						L802				220uH	
		< DIODE >				L902	1-408-986-21	INDU	CIOK	270uH	
,		D. O.D.E. 144 F.O.W.V.						, TO	ANSISTOR		
D401	8-719-400-18							\ IN	MNOISIUN	,	
D501	8-719-104-34					Q501	8-729-100-66	TRAN	SISTOR	2SC1623	
D603	8-719-104-34				į	Q503	8-729-100-66			2SC1623	
D702	8-719-400-18				1	Q504	8-729-902-99			DTC114TK	
D703	8-713-300-88	D100E 11330-0	1		ł	Q506	8-729-216-22			2SA1162	
D704	8-719-104-34	D10DE 182836				0508	8-729-100-66			2SC1623	
D850	8-719-400-18										
					` .	Q509	8-729-903-10	TRAN	SISTOR	FMW1	
		< FILTER >			ļ	Q511	8-729-100-66	TRAN	SISTOR	2801623	
						Q512	8-729-100-66	TRAN		2SC1623	
		FILTER, LOW PAS			1	Q514	8-729-216-22	TRAN		2SA1162	
		FILTER, LOW PAS				Q526	8-729-100-66	TRAN	SISTOR	2801623	
FL801	1-236-838-21	FILTER, BAND PA	ISS								
FL901	1-236-837-21	FILTER, BAND PA	ISS			Q527	8-729-901-01			DTC144EK	
						Q603	8-729-100-66			2SC1623	
		< 10 >				Q604	8-729-100-66			2SC1623	
						0605	8-729-100-66			2801623	
	8-752-334-42		,			Q606	8-729-100-66	IKAN	191910K	2801623	
	8-759-300-71		,			0610	8-729-901-06	TDAN	IC I CTOD	DTA144EK	
	8-759-981-99 8-759-009-06					Q610 Q611	8-729-301-00			2SK160-K5	
	8-759-981-99					Q612	8-729-116-05			2SK160-K5	
10000	0-133-301-33	I I KO4300M			ŀ	Q613	8-729-100-66			2SC1623	
10607	8-759-981-99	1C RC4560M			-	0660	8-729-100-66			2SC1623	
	8-759-300-71		•				5 .22 .00 00	,,,,,			
10609						Q661	8-729-216-22	TRAN	ISISTOR	2SA1162	
	8-759-009-06					0662	8-729-216-22			2SA1162	
10614						0701	8-729-901-06			DTA144EK	
						0702	8-729-901-01	TRAP	ISISTOR	DTC144EK	
1C703	8-752-332-46	1C CXD1208Q				0703	8-729-100-66			2SC1623	
	8-759-009-51				1						
	8-759-507-53		-15FC			0705	8-729-100-66			2SC1623	
	8-759-502-14					0706	8-729-100-66			2801623	
10708	8-752-010-20) IC CX20102				0707	8-729-100-66			2SC1623	
						Q708	8-729-901-06	TRAI	ISISTOR	DTA144EK	

Ref. No.	Part No.	Description			Remark 	Ref. No.	Part No.	Descr	iption			Remark
0709	8-729-100-66	TRANSISTOR	2SC1623			R413	1-216-097-00	METAL	CHIP	100K	5%	1/10W
0710	8-729-901-06	TRANSISTOR	DTA144E	K		R501	1-216-049-00			1K	5%	1/10W
0711	8-729-901-01	TRANSISTOR	DTC144E	K		R502	1-216-050-00			1. 1K		1/10W
Q803	8-729-901-01	TRANSISTOR	DTC144E	K		R504	1-216-069-00			6. 8K		1/10W
Q804	8-729-100-66	TRANSISTOR	2SC1623			R505	1-216-049-00			1 K	5%	1/10W
Q831	8-729-100-66	TRANSISTOR	2SC1623			R506	1-216-041-00	METAL	CHIP	470	5%	1/10W
0832	8-729-216-22	TRANSISTOR	2SA1162			R507	1-216-079-00	METAL	CHIP	18K	5%	1/10W
Q833	8-729-901-04	TRANSISTOR	DTA114E	K		R508	1-216-073-00	METAL	CHIP	10K	5%	1/10W
0840	8-729-100-66		2SC1623			R509	1-216-089-00	METAL	CHIP	47K	5%	1/10W
0841	8-729-100-66	TRANSISTOR	2SC1623			R510	1-216-081-00	METAL	CHIP	22K	5%	1/10W
Q842	8-729-100-66		2SC1623			R511	1-216-073-00	METAL	CHIP	10K	5%	1/10W
Q850	8-729-901-01		DTC144E	K		R512	1-216-083-00			27K	5%	1/10W
0851	8-729-100-66		2SC1623			R513	1-216-097-00	METAL	CHIP	100K	5%	1/10W
Q852	8-729-100-66		2SC1623			R514	1-216-059-00			2.7K	5%	1/10W
Q855	8-729-100-66	TRANSISTOR	2SC1623			R515	1-216-063-00	METAL	CHIP	3. 9K	5%	1/10W
Q856	8-729-100-66		2SC1623			R516	1-216-073-00			10K	5%	1/10W
0857	8-729-901-01		DTC144EI			R517	1-216-097-00			100K	5%	1/10W
Q858	8-729-901-01		DTC144E			R519	1-216-073-00			10K	5%	1/10W
Q903	8-729-901-01		DTC144EN	(R520	1-216-073-00			10K	5%	1/10W
0904	8-729-100-66	IKANSISIOR	2SC1623			R523	1-216-077-00	METAL	CHIP	15K	5%	1/10W
0940	8-729-100-66		2SC1623			R524	1-216-073-00	METAL	CHIP	10K	5%	1/10W
Q941	8-729-100-66		2SC1623			R526	1-216-085-00			33K	5%	1/10W
Q942	8-729-100-66		2SC1623			R529	1-216-065-00			4. 7K	5%	1/10W
Q957	8-729-901-01		DTC144EK			R545	1-216-089-00			47 K	5%	1/10W
Q958	8-729-901-01	TRANSISTOR	DTC144EK	(R553	1-216-055-00	METAL	CHIP	1. 8K	5%	1/10W
		< RESISTOR >				R550	1-216-045-00			680	5%	1/10W
						R555	1-216-055-00	METAL	CHIP	1.8K	5%	1/10W
R151	1-216-073-00		10K	5%	1/10W	R571	1-216-041-00			470	5%	1/10W
R152	1-216-049-00		1 K	5%	1/10W	R572	1-216-073-00	METAL	CHIP	10K	5%	1/10W
R153	1-216-049-00		1 K	5%	1/10W	R580	1-216-025-00	METAL	CHIP	100	5%	1/10W
R155 R157	1-216-295-00 1-216-295-00		0	5% 5%	1/10W	2504	4 440 474 44					
K I J I	1-210-233-00	MEINE GHIF	U	376	1/10W	R581	1-216-073-00			10K	5%	1/10W
R160	1-216-295-00	METAL CHIP	0	5%	1/10W	R582	1-216-073-00			10K	5%	1/10W
R161	1-216-295-00		0	5%	1/10W	R586	1-216-041-00			470	5%	1/10W
R179	1-216-295-00		0	5%	1/10W	R609	1-216-295-00			0	5%	1/10W
R180	1-216-295-00	METAL CHIP	0	5%	1/10W	R610	1-216-295-00	METAL	CHIP	0	5%	1/10W
R181	1-216-295-00	METAL CHIP	0	5%	1/10W	R612	1-216-295-00	METAL	CHIP	0	5%	1/10W
						R613	1-216-105-00	METAL	CHIP	220K		1/10W
R182	1-216-295-00		0	5%	1/10W	R614	1-216-105-00	METAL	CHIP	220K	5%	1/10W
R183	1-216-295-00		0	5%	1/10W	R615	1-216-065-00			4. 7K		1/10W
R401	1-216-077-00		15K	5%	1/10W	R616	1-216-065-00	METAL	CHIP	4. 7K		1/10W
R402	1-216-077-00		15K	5%	1/10W							,
R403	1-216-085-00	METAL CHIP	33K	5%	1/10W	R617	1-216-097-00	METAL	CHIP	100K	5%	1/10W
						R618	1-216-097-00	METAL	CHIP	100K		1/10W
R404	1-216-075-00		12K	5%	1/10W	R619	1-216-057-00			2. 2K		1/10W
R405	1-216-075-00		12K	5%	1/10W	R620	1-216-057-00			2. 2K	5%	1/10W
R406	1-216-097-00		100K	5%	1/10W	R621	1-216-073-00			10K	5%	1/10W
R407	1-216-097-00		100K	5%	1/10W							.,
R408	1-216-097-00	METAL CHIP	100K	5%	1/10W	R622	1-216-073-00			10K	5%	1/10W
						R623	1-216-025-00	METAL	CHIP	100	5%	1/10W
R409	1-216-097-00		100K		1/10W	R624	1-216-025-00			100	5%	1/10W
R412	1-216-025-00	METAL CHIP	100	5%	1/10W	R625	1-216-057-00	METAL	CHIP	2. 2K	5%	1/10W

Ref. No.		Description			Remark 	Ref. No.	Part No.	Description			Remark
R626	1-216-057-00		2. 2K	5%	1/10W	R682	1-216-079-00		18K	5%	1/10W
R627	1-216-073-00		10K	5%	1/10W	R683	1-216-025-00	METAL CHIP	100	5%	1/10W
R628	1-216-073-00		10K	5%	1/10W	R684	1-216-025-00	METAL CHIP	100	5%	1/10W
R629	1-216-081-00		22K	5%	1/10W	R685	1-216-081-00		22K	5%	1/10W
R630	1-216-081-00		22K	5%	1/10W	R686	1-216-089-00		47K	5%	1/10W
R631	1-216-089-00	METAL CHIP	47K	5%	1/10W	R687	1-216-077-00	METAL CHIP	15K	5%	1/10W
R632	1-216-089-00		47K	5%	1/10W	R688	1-216-077-00		15K	5%	1/10W
R633	1-216-089-00		47K	5%	1/10W	R689	1-216-077-00		15K	5%	1/10W
R634	1-216-089-00		47K	5%	1/10W	R690	1-216-057-00		2. 2K		1/10W
R635	1-216-295-00		0	5%	1/10W	R691	1-216-025-00		100	5%	1/10W
R636	1-216-295-00	METAL CHIP	0	5%	1/10W	R692	1-216-295-00	METAL CHIP	0	5%	1/10W
R637	1-216-089-00		47K	5%	1/10W	R693	1-216-295-00		Ō	5%	1/10W
R638	1-216-089-00		47K	5%	1/10W	R694	1-216-295-00		Ô	5%	1/10W
R640	1-216-039-00		390	5%	1/10W	DEOF	1-216-295-00		Ŏ	5%	1/10W
R641	1-216-061-00		3. 3K		1/10W	R696	1-216-089-00		47K	5%	1/10W
R642	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W	R697	1-216-089-00	METAL CHIP	47K	5%	1/10W
R645	1-216-063-00		3. 9K		1/10W	R698	1-216-295-00		0	5%	1/10W
R646	1-216-063-00		3. 9K		1/10W	R701	1-216-029-00		150	5%	1/10W
R647	1-216-076-00		13K	5%	1/10W	R702	1-216-653-11		1. 2K		1/10W
R648	1-216-076-00		13K	5%	1/10W	R703	1-216-661-11		2. 7K		1/10W
11040	, 210 010 00		, , , ,		-	1					
R651	1-216-099-00		120K		1/10W	R704	1-216-022-00		75	5%	1/10W
R653	1-216-295-00		0	5%	1/10W	R705	1-216-039-00		390	5%	1/10W
R655	1-216-049-00		1 K	5%	1/10W	R706	1-216-049-00		1 K	5%	1/10W
R656	1-216-049-00	METAL CHIP	1 K	5%	1/10W	R707	1-216-077-00		15K	5%	1/10W
R657	1-216-073-00	METAL CHIP	10K	5%	1/10W	R708	1-216-748-11	METAL CHIP	39K	1%	1/10W
R658	1-216-073-00	METAL CHIP	10K	5%	1/10W	R712	1-216-077-00		15K	5%	1/10W
R659	1-216-085-00	METAL CHIP	33K	5%	1/10W	R713	1-216-748-11		39K	1%	1/10W
R660	1-216-085-00	METAL CHIP	33K	5%	1/10W	R717	1-216-117-00	METAL CHIP	680K		1/10W
R661	1-216-073-00	METAL CHIP	10K	5%	1/10W	R718	1-216-105-00	METAL CHIP	220K		1/10W
R662	1-216-073-00) METAL CHIP	10K	5%	1/10W	R720	1-216-073-00	METAL CHIP	10K	5%	1/10W
R663	1-216-073-00	METAL CHIP	10K	5%	1/10W	R721	1-216-101-00	METAL CHIP	150K		1/10W
R664	1-216-073-00	METAL CHIP	10K	5%	1/10W	R723	1-216-097-00	METAL CHIP	100K	5%	1/10W
R665	1-216-025-00	METAL CHIP	100	5%	1/10W	R725	1-216-295-00	METAL CHIP	0	5%	1/10W
R666	1-216-025-00	METAL CHIP	100	5%	1/10W	R726	1-216-073-00	METAL CHIP	10K	5%	1/10W
R667	1-216-081-00	METAL CHIP	22K	5%	1/10W	R727	1-216-049-00	METAL CHIP	1 K	5%	1/10W
R668	1-216-081-00	METAL CHIP	22K	5%	1/10W	R728	1-216-295-00	METAL CHIP	0	5%	1/10W
R669	1-216-085-00	METAL CHIP	33K	5%	1/10W	R731	1-216-295-00	METAL CHIP	0	5%	1/10W
R670	1-216-085-00	METAL CHIP	33K	5%	1/10W	R733	1-216-295-00	METAL CHIP	0	5%	1/10W
R671	1-216-070-00		7. 5K	5%	1/10W	R736	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W
R672	1-216-070-0	METAL CHIP	7. 5K	5%	1/10W	R738	1-216-017-00	METAL CHIP	47	5%	1/10W
R673	1-216-627-1	1 METAL CHIP	100	0. 5%	1/10W	R739	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R674	1-216-627-1	1 METAL CHIP	100	0.5%	1/10W	R740	1-216-051-00	METAL CHIP	1. 2K	5%	1/10W
R675	1-216-081-0	METAL CHIP	22K	5%	1/10W	R741	1-216-051-00	METAL CHIP	1. 2K	5%	1/10W
R676		METAL CHIP	22K	5%	1/10W	R742	1-216-071-00	METAL CHIP	8. 2 K		1/10W
R677		METAL CHIP	7. 5K	5%	1/10W	R743	1-216-073-00	METAL CHIP	10K	5%	1/10W
R678	1-216-070-0	D METAL CHIP	7. 5K	5%	1/10W	R744	1-216-295-00	METAL CHIP	0	5%	1/10W
R679		METAL CHIP	15K	5%	1/10W	R745	1-216-073-00		10K	5%	1/10W
R680		METAL CHIP	15K	5%	1/10W	R746	1-216-057-00		2. 2K		1/10W
R681		O METAL CHIP	18K	5%	1/10W	R747	1-216-073-00		10K	5%	1/10W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Descr	iption			Remark
R748	1-216-077-00		15K	5%	1/10W	R822	1-216-059-00	METAL	CHIP	2. 7K	5%	1/10W
R749	1-216-049-00	METAL CHIP	1 K	5%	1/10W	R823	1-216-073-00	METAL	CHIP	10K	5%	1/10W
R750	1-216-073-00	METAL CHIP	10K	5%	1/10W	R824	1-216-079-00	METAL	CHIP	18K	5%	1/10W
R751	1-216-049-00	METAL CHIP	1 K	5%	1/10W	R827	1-216-089-00	METAL	CHIP	47K	5%	1/10W
R752	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W	R828	1-216-089-00	METAL	CHIP	47K	5%	1/10W
R753	1-216-081-00		22K	5%	1/10W	R829	1-216-079-00	METAL	CHIP	18K	5%	1/10W
R754	1-216-073-00	METAL CHIP	10K	5%	1/10W	R830	1-216-083-00			27K	5%	1/10W
R755	1-216-049-00	METAL CHIP	1 K	5%	1/10W	R831	1-216-069-00			6. 8K		1/10W
R756	1-216-025-00	METAL CHIP	100	5%	1/10W	R834	1-216-041-00			470	5%	1/10W
R757	1-216-037-00	METAL CHIP	330	5%	1/10W	R835	1-216-091-00			56K	5%	1/10W
R758	1-216-029-00	METAL CHIP	150	5%	1/10W	R836	1-216-101-00	METAL	CHIP	150K	5%	1/10W
R759	1-216-045-00	METAL CHIP	680	5%	1/10W	R837	1-216-065-00	METAL	CHIP	4. 7K		1/10W
R760	1-216-049-00	METAL CHIP	1 K	5%	1/10W	R838	1-216-069-00	METAL	CHIP	6.8K		1/10W
R761	1-216-077-00	METAL CHIP	15K	5%	1/10W	R839	1-216-057-00	METAL	CHIP	2. 2K		1/10W
R762	1-216-049-00	METAL CHIP	1 K	5%	1/10W	R840	1-216-049-00			1 K	5%	1/10W
R763	1-216-049-00		1 K	5%	1/10W	R841	1-216-105-00	METAL	CHIP	220K	5%	1/10W
R764	1-216-049-00		, 1K	5%	1/10W	R842	1-216-065-00			4. 7K	5%	1/10W
R770	1-216-295-00	METAL CHIP	0	5%	1/10W	R843	1-216-049-00	METAL	CHIP	1 K	5%	1/10W
R772	1-216-097-00		100K	5%	1/10W	R844	1-216-063-00	METAL	CHIP	3.9K	5%	1/10W
R780	1-216-045-00	METAL CHIP	680	5%	1/10W	R845	1-216-053-00	METAL	CHIP	1. 5K	5%	1/10W
R789	1-216-105-00	METAL CHIP	220K	5%	1/10W	R846	1-216-083-00	METAL	CHIP	27K	5%	1/10W
R790	1-216-085-00	METAL CHIP	33K	5%	1/10W	R847	1-216-073-00	METAL	CHIP	10K	5%	1/10W
R791	1-216-085-00		33K	5%	1/10W	R850	1-216-121-00	METAL	CHIP	1M	5%	1/10W
R794	1-216-097-00		100K	5%	1/10W	R851	1-216-081-00	METAL	CHIP	22K	5%	1/10W
R796	1-216-053-00	METAL CHIP	1. 5K	5%	1/10W	R852	1-216-081-00	METAL	CHIP	22K	5%	1/10W
R797	1-216-097-00	METAL CHIP	100K	5%	1/10W	R853	1-216-052-00	METAL	CHIP	1. 3K	5%	1/10W
R798	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W	R854	1-216-052-00	METAL	CHIP	1. 3K	5%	1/10W
R799	1-216-029-00		150	5%	1/10W	R855	1-216-063-00	METAL	CHIP	3.9K	5%	1/10W
R801	1-216-049-00		1 K	5%	1/10W	R856	1-216-063-00			3.9K	5%	1/10W
R802	1-216-049-00	METAL CHIP	1 K	5%	1/10W	R857	1-216-035-00	METAL	CHIP	270	5%	1/10W
R803	1-216-660-11		2. 4K	0.5%	1/10W	R858	1-216-035-00	METAL	CHIP	270	5%	1/10W
R804	1-216-661-11			0. 5%	1/10W	R859	1-216-073-00			10K	5%	1/10W
R805	1-216-295-00		0	5%	1/10W	R860	1-216-073-00			10K	5%	1/10W
R806	1-216-065-00		4. 7K		1/10W	R861	1-216-748-11			39K	1%	1/10W
R807	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W	R862	1-216-748-11	METAL	CHIP	39K	1%	1/10W
R808	1-216-065-00		4. 7K		1/10W	R863	1-216-083-00			27K	5%	1/10W
R809	1-216-063-00		3. 9 K		1/10W	R864	1-216-083-00			27K	5%	1/10W
	1-216-121-00		1M		1/10W		1-216-057-00			2. 2K	5%	1/10W
R811	1-216-107-00		270K		1/10W	R866	1-216-057-00			2. 2K	5%	1/10W
R812	1-216-046-00	METAL CHIP	750	5%	1/10W	R874	1-216-065-00	METAL	CHIP	4. 7K	5%	1/10W
R813	1-216-046-00		750	5%	1/10W	R875	1-216-065-00			4. 7K	5%	1/10W
R814	1-216-077-00		15K	5%	1/10W	R876	1-216-065-00			4. 7K	5%	1/10W
R815	1-216-075-00		12K	5%	1/10W	R877	1-216-065-00	METAL	CHIP	4. 7K	5%	1/10W
R816	1-216-063-00		3. 9K		1/10W	R878	1-216-065-00			4. 7K	5%	1/10W
R817	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W	R879	1-216-065-00	METAL	CHIP	4. 7K	5%	1/10W
R818	1-216-045-00		680	5%	1/10W	R880	1-216-065-00	METAL	CHIP	4. 7K	5%	1/10W
R819	1-216-059-00	*	2.7K		1/10W	R881	1-216-065-00			4. 7K		1/10W
R820	1-216-061-00		3. 3K		1/10W	R885	1-216-097-00			100K	5%	1/10W
R821	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W	R890	1-216-081-00	METAL	CHIP	22K	5%	1/10W
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Ref. No.	Part No.	Description			Remark 	Ref. No.	Part No.	Description			Remark
R891	1-216-081-00	METAL CHIP	22K	5%	1/10W	R958	1-216-085-00	METAL CHIP	33K	5%	1/10W
R892	1-216-081-00		22K	5%	1/10W	R959	1-216-081-00	METAL CHIP	22K	5%	1/10W
R893	1-216-037-00		330	5%	1/10W	R960	1-216-081-00	METAL CHIP	22K	5%	1/10W
R894	1-216-049-00		1 K	5%	1/10W	R961	1-216-073-00		10K	5%	1/10W
R895	1-216-073-00		10K	5%	1/10W	R962	1-216-081-00		22K	5%	1/10W
11030	1 2 70 010 00	WEINE VIII			.,						•
R896	1-216-051-00	METAL CHIP	1. 2K	5%	1/10W	R963	1-216-071-00	METAL CHIP	8. 2K	5%	1/10W
R901	1-216-049-00		1 K	5%	1/10W	R964	1-216-075-00		12K	5%	1/10W
R902	1-216-049-00		1 K	5%	1/10W	R965	1-216-074-00		11K	5%	1/10W
	1-216-660-11				1/10W	R966	1-216-081-00		22K	5%	1/10W
R903	1-216-661-11		2. 7K		1/10W	R967	1-216-073-00		10K	5%	1/10W
R904	1-210-001-11	MEINE CHIT	Z. / K	V. 3/4	1/ 1011	11301	1 210 010 00	WEINE OHII	101	070	17 1011
חממר	1 010 005 00	METAL AUID	0	5%	1/10W	R968	1-216-081-00	METAL CHID	22K	5%	1/10W
R905	1-216-295-00		-		•	R969	1-216-085-00			5%	1/10W
R906	1-216-065-00		4. 7K		1/10W	•			33K		•
R907	1-216-065-00		4. 7K	5%	1/10W	R970	1-216-085-00		33K	5% 5%	1/10W
R908	1-216-065-00		4. 7K	5%	1/10W	R971	1-216-081-00		22K	5%	1/10W
R909	1-216-049-00	METAL CHIP	1 K	5%	1/10W	R972	1-216-073-00	METAL CHIP	10K	5%	1/10W
R910	1-216-121-00	METAL CHIP	1M	5%	1/10W	R973	1-216-073-00		10K	5%	1/10W
R911	1-216-107-00	METAL CHIP	270K	5%	1/10W	R984	1-216-097-00	METAL CHIP	100K	5%	1/10W
R912	1-216-047-00	METAL CHIP	820	5%	1/10W	R990	1-216-081-00	METAL CHIP	22K	5%	1/10W
R913	1-216-047-00	METAL CHIP	820	5%	1/10W	R991	1-216-081-00	METAL CHIP	22K	5%	1/10W
R915	1-216-075-00	METAL CHIP	12K	5%	1/10W	R992	1-216-081-00	METAL CHIP	22K	5%	1/10W
R916	1-216-063-00	METAL CHIP	3. 9K	5%	1/10W	R993	1-216-037-00	METAL CHIP	330	5%	1/10W
R917	1-216-057-00		2. 2K	5%	1/10W	R994	1-216-049-00	METAL CHIP	1 K	5%	1/10W
R918	1-216-045-00		680	5%	1/10W	R995	1-216-073-00		10K	5%	1/10W
R919	1-216-059-00		2.7K	5%	1/10W	R996	1-216-051-00		1. 2K	5%	1/10W
R920	1-216-061-00		3. 3K		1/10W						•
			** ***					< VARIABLE RESI	STOR >		
R921	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W						
R922	1-216-059-00			5%	1/10W	RV701	1-228-995-00	RES, ADJ, METAL	22K		
R923	1-216-073-00		10K	5%	1/10W	I		RES, ADJ, METAL			
R924	1-216-079-00		18K	5%	1/10W	I		RES, ADJ, METAL			
R927	1-216-079-00		18K	5%	1/10W	1		RES, ADJ, METAL			
NSZI	1 210 013 00	MILIAL VIII	101	0/4	17 1011)		RES, ADJ, METAL			
R928	1-216-089-00	METAL CHID	47K	5%	1/10W	117171	1 220 331 00	NEO, ADO, METAL	2. ZK		
	1-216-089-00		18K	5%	1/10W	DV709	1_228_007_00	RES, ADJ, METAL	1006		
R929			27K	5%	1/10W	1		RES, ADJ, METAL			
R930	1-216-083-00				•	1					
R931	1-216-065-00		4. 7K		1/10W	,		RES, ADJ, METAL			
R939	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W	1		RES, ADJ, METAL			
P. 4.5	4 040 040 0	METAL AND	4 V	E9/	1 /10₩	KAAAL	1-220-994-00) RES. ADJ. METAL	LUK		
R940	1-216-049-00		1 K	5%	1/10W	Busas	4 000 005 0				
R941	1-216-105-00		220K		1/10W			RES, ADJ, METAL			
R942	1-216-065-00		4. 7K		1/10W	4		RES, ADJ, METAL			
R943	1-216-049-00		1 K	5%	1/10W) RES, ADJ, METAL			
R944	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W) RES, ADJ, METAL			
						RV954	1-228-995-00) RES, ADJ, METAL	22K		
R945	1-216-047-00	METAL CHIP	820	5%	1/10W						
R946	1-216-083-00	METAL CHIP	27K	5%	1/10W			< CRYSTAL >			
R947	1-216-073-00	METAL CHIP	10K	5%	1/10W	1					
R952	1-216-073-00	METAL CHIP	10K	5%	1/10W	X401	1-567-504-11	OSCILLATOR, CRY	STAL	(4. 43M	IHz)
R953	1-216-074-00		11K	5%	1/10W	i		*********			•
	. = . =		•		•						•
R954	1-216-081-00	METAL CHIP	22K	5%	1/10W	1					
R955	1-216-079-00		18K	5%	1/10W						
R956	1-216-085-00		33K	5%	1/10W						
R957	1-216-073-00		10K	5%	1/10W	1					
1061	1 210 010 01	, METAL VIIII	1 V R	~/ *	.,	1					

Ref. No.	Part No.	Description		Ren	nark	Ref. No.	Part No.	Description			Re	emark
*	A-7063-057-A	PS-278 BOARD, CC		lo. 9000	Series) (US)			< DIODE >				
*	A-7063-176-A	PS-278 BOARD, CC	MPLETE (Ref. N	_	' '	⚠. D001 D002 ⚠. D003	8-719-510-67 8-719-500-70 8-719-304-50	DIODE D584				
		HOLDER, FUSE				D004 D007	8-719-110-37 8-719-941-74	DIODE RD13	ES-83			
*	3-731-146-01	RETAINER, TRANS RETAINER (B), P SCREW +PS 2X1	\$			D008	8-719-500-70					
	7-685-646-79		3X8 TYPE2 I	T-3		D009 D012 D013	8-719-913-44 8-719-913-44 8-719-901-83	DIODE ERAS	2-004			
		< CAPACITOR >				D014	8-719-901-83					
⚠. C001 ⚠. C002	1-136-345-21	FILM	0. 1uF 0. 1uF	20%	125V 125V	D015	8-719-121-24		IES-L			
⚠. C003 ⚠. C004 ⚠. C005	1-161-742-00 1-161-742-00 1-161-742-00	CERAMIC	0. 0022MF 0. 0022MF 0. 0022uF	20% 20% 20%	400V 400V 400V	⚠. F001	1_532_743_11	< FUSE > FUSE, GLASS	TIIDE OA 1	0 E V		
C007	1-125-708-11		330uF	20%	200V	⚠. F002	1-532-776-21	FUSE, MICRO FUSE, MICRO	(SECONDAR	Y) 1A		
C008 C009	1-136-208-11	CERAMIC	0.068uF 330PF	10% 10%	400V 1KV			< 10 >	•	.,		
C010 C011	1-130-495-00 1-126-588-11		0. 1uF 1000uF	5% 20%	50V 16V		8-759-513-69 8-719-946-76					
C012 C014	1-126-587-11 1-126-588-11		330uF 1000uF	20% 20%	16V 16V	1C005	8-759-513-71 8-759-982-52	IC PQ05RF2	11			
CO15 CO16 CO18	1-126-376-11 1-126-373-11 1-126-587-11	ELECT	470uF 470uF	20% 20%	25V 10V		8-759-990-33	IC FA7610F	•			
C019	1-123-875-11		330uF 10uF	20%	16V 50V	<u>А</u> . L001	1-424-121-11	< COIL > TRANSFORMER,	3 INF FII	TFD		
C020 C021	1-124-126-00 1-130-473-00		47uF 0. 0015uF	20% 5%	10V 50V	L002 L003	1-421-918-11	COIL. CHOKE	10uH 10uH	101		
C022 C023	1-124-126-00 1-161-043-00		47uF 0. 0022uF	20% 10%	10V 50V	L004 L005	1-410-794-11 -1-410-667-31	INDUCTOR Inductor	330 u H 22 u H			
C024 C025	1-124-570-11 1-126-335-11		220uF 220uF	20% 20%	-16V 10V	L006 L007	1-410-645-31 1-410-645-31		100uH 100uH			
C026 C027	1-126-335-11 1-123-875-11	ELECT	220uF 10uF	20% 20%	10V 50V			< TRANSISTOR				
C028 C029	1-123-875-11		10uF 47uF	20%	50V 50V	0004	8-729-824-22	TRANSISTOR	2SD1805F			
C030 C031	1-123-875-11 1-161-055-00	ELECT	10uF 0. 022uF	20% 10%	50V 50V			< RESISTOR >				
C041 C042	1-130-475-00 1-126-588-11		0. 0022uF 1000uF	5% 20%	50V 16V		1-202-729-00	WIREWOUND	3. 3	10% 10%	1/2W 5W F	
⚠. C050 ⚠. C051	1-161-742-00 1-161-742-00		0. 0022uF 0. 0022uF	20% 20%	400V 400V		1-217-782-11 1-215-927-00 1-247-891-00		3.3 47K 330K	5% 5% 5%	5W F 3W F 1/4W	(Canadian)
		< CONNECTOR >				R006	1-249-429-11	CARBON	10K	5%	1/4W	
		PIN, CONNECTOR CONNECTOR 5P. MA				∱. R008 R009	1-215-883-11 1-212-891-00 1-215-883-11	FUSIBLE METAL OXIDE	33 270 33	5% 5% 5%	1/4W 2W	F F F
					ļ	R010	1-249-402-11	CAKBON	56	5%	1/4W	

Note:
The components identified by mark A or dotted line with mark are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque \(\frac{\Lambda}{\Lambda} \) sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Re	mark	Ref. No.	Part No.	Descrip	otion			Rei	mark
R011	1-215-431-00	METAL	2. 7K	1%	1/6W		C521	1-163-117-00	CERAMIC	CHIP	100PF		5%	50V
R012	1-215-429-00		2. 2K		1/6W		C523	1-163-117-00	CERAMIC	CHIP	100PF		5%	50 V
R013	1-249-405-11		100	5%	1/4W		C524	1-163-009-11			0.001	uF	10%	50V
R021	1-247-885-00		180K		1/4W	1	C525	1-163-009-11			0.001		10%	50V
R022	1-247-899-11		680K		1/4W		C529	1-163-009-11			0.001		10%	50V
11022	1 241 033 11	OKIIDON	****	• • • • • • • • • • • • • • • • • • • •	.,		••••							
R023	1-247-858-11	CARBON	13K	5%	1/4W		C531	1-163-009-11	CERAMIC	CHIP	0.001	uF	10%	50V
R024	1-247-887-00	CARBON	220K		1/4W									
R025	1-215-441-00	METAL	6.8K	1%	1/6W				< CONNI	ECTOR >				
R026	1-215-429-00	METAL	2. 2K	1%	1/6W									
R027	1-215-469-00	METAL	100K	1%	1/6W		CN503	1-563-628-11	CONNEC	TOR, FL	EXIBLE 2	5P		
R028	1-214-773-00	METAL	68K	1%	1/4W				< DIODI	F >				
R030	1-249-405-11		100	5%	1/4W				. 0100	_ /				
R032	1-215-927-00		47K	5%	3W	£ .	D503	8-719-106-43	DIADE	RD9. 1	M-R1			
			100	1%	1/6W	ī	D504	8-719-106-43		RD9. 1				
R035	1-215-397-00			5%		F	D505	8-719-106-43		RD9. 1				
R037	1-215-883-11	METAL VALUE	33	370	211	г								
		0.17001	4714	ΓĐ	• / 100 -		D506	8-719-106-79		RD13M				
R038	1-249-437-11		47K	5%	1/4W		D507	8-719-106-43	DIOUE	RD9. 1	M-RI			
R039	1-249-429-11		10K	5%	1/4W		25.00		DIADE	222				
R040	1-249-417-11	CARBON	1 K	5%	1/4W		D509	8-719-106-43		RD9. 1				
							D515	8-719-420-81		MA307				
		< TRANSFORMER	>				D516	8-719-420-81		MA307				
							D517	8-719-420-81		MA307				
		TRANSFORMER, C					D520	8-719-420-81	DIODE	MA307	5WA			
<u>∧</u> . T002		TRANSFORMER, C					Dras	0 710 400 01	DIADE	114007	CUIA			
*****	*********	**********	******	*****	******	*****	D521	8-719-420-81		MA307				
				/n / 1			D522	8-719-420-81		MA307				
*	A-/063-058-A	RJ-25 BOARD.CO		(Ket. N	10. 2000	Series)	D525	8-719-420-81		MA307				
		**********	*****				D526	8-719-420-81		MA307				
							D527	8-719-420-81	DIODE	MA307	5WA			
		I TERMINAL BOARD	•		NJ502-5	605, J602)	1							
	1-690-349-11	I WIRE, FLAT TYP	PE (25 (CORE)			D530			RD9. 1				
	3-831-441 - XX	(CUSHION (5)					D531	8-719-106-43	DIODE	RD9. 1	M-B1			
*	3-944-142-01	I PLATE, GROUND,	RJ				1							
	7-685-646-79	SCREW +BVTP	3X8	TYPE2	IT-3	•			< CHIP	JUMPER	 			
		< CAPACITOR >					JR501	1-216-295-00	METAI	CHIP	0	5%	1/10W	ı
								1-216-296-00			Ô	5%	1/8W	
C505	1-163-009-11	CERAMIC CHIP	0.00	1nF	10%	50V		1-216-296-00			Ŏ	5%	1/8W	
C506		CERAMIC CHIP	100P		5%	50V	1	1-216-296-00			Ö	5%	1/8W	
C507		CERAMIC CHIP	100P		5%	50V		1-216-296-00			Õ	5%	1/8W	
C507		CERAMIC CHIP	100P		5%	50V	0.000	1 210 250 00	MEIAL	01111	v	070	17 011	
C509		CERAMIC CHIP	100P		5%	50V	18507	1-216-296-00	METAL	CHIP	0	5%	1/8W	
6909	1-103-117-00	J CENAMIC CHIP	1001	ı	3/8	304	JR508				0	5%	1/8W	
0510	1 100 117 0	OCDAMIC CUID	1000	_	E4/	50V	JR509				0	5%	1/8W	
C510		CERAMIC CHIP	100P		5% 5%	50V	JR510				0	5%	1/8W	
C511		CERAMIC CHIP	100P									5%		
C512		1 CERAMIC CHIP	0.00		10%	50V	JR511	1-216-296-00	MEIAL	Unir	0	376	1/8W	
C513		1 CERAMIC CHIP	0.00		10%	50V	10540	1 010 000 0	HETAL	A11.1.B	•	F0/	4.700	
C514	1-163-117-00	CERAMIC CHIP	100P	r	5%	50V		1-216-296-00			0	5%	1/8W	
				_	==:	P * 1 *		1-216-296-00			0	5%	1/8W	
C515		O CERAMIC CHIP	100P		5%	50V	1	1-216-295-00			0	5%	1/109	ı
C516		O CERAMIC CHIP	100P		5%	50V	JR515				0	5%	1/8W	
C517		1 CERAMIC CHIP	0.00		10%	50V	JR516	1-216-296-00	METAL	CHIP	0	5%	1/8W	
C518	1-163-009-1	1 CERAMIC CHIP	0.00		10%	50V	1							
C519	1-163-117-0	O CERAMIC CHIP	100P	F	5%	50V	JR517	1-216-296-00	METAL	CHIP	0	5%	1/8W	
								1-216-296-00	METAL	CHIP	0	5%	1/8W	
C520	1-163-017-0	D CERAMIC CHIP	0.00	47uF	5%	50V	JR519	1-216-296-00	METAL	CHIP	0	5%	1/8W	

Note:
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Replace only with part number specified.

Note:
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Ne les remplacer que par une pièce portant le numéro spécifié.

D (11	D W										
Ket. No.	Part No.	Description 			Remark 	Ref. No.	Part No.	Description 		Rem	ark
JR520	1-216-296-00	METAL CHIP	0 !	5% 1/8		C010		CERAMIC CHIP	0.01uF		50V
	1-216-296-00	•		5% 1/8		C011	1-126-193-11		1 u F	20%	50V
JR522	1-216-296-00	METAL CHIP	0 !	5% 1/8		C012	1-124-779-00		10uF	20%	16V
	1-216-296-00			5% 1/8		C013		CERAMIC CHIP	0. 1uF	10%	25V
	1-216-296-00			% 1/8		C014		CERAMIC CHIP	0. 01uF	1076	50V
				., .			1 104 202 11	OLIMINIO OIIII	0. 0101		307
	1-216-295-00		0 5	5% 1/1	0W	C015	1-163-224-11	CERAMIC CHIP	7PF	0. 25PF	50V
JR526	1-216-295-00	METAL CHIP	0 5	5% 1/1	WO	C016		CERAMIC CHIP	0. 1uF	10%	25V
JR527	1-216-296-00	METAL CHIP	0 (5% 1/8	W	C017	1-126-193-11	ELECT	1uF	20%	50V
JR528	1-216-296-00	METAL CHIP	0 5	5% 1/8	W	C018	1-163-087-00	CERAMIC CHIP	4PF	2070	50V
JR529	1-216-296-00	METAL CHIP	0 5	5% 1/8	W	C019		CERAMIC CHIP	0. 01uF		50V
10500			_								
JR530	1-216-296-00			5% 1/8		C020		CERAMIC CHIP	0.01uF		50V
JR531	1-216-296-00			1/8		C021		CERAMIC CHIP	7PF	0.25PF	50V
	1-216-296-00			i% 1/8		C022	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V
	1-216-296-00			i% 1/8		C023	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V
JR534	1-216-296-00	METAL CHIP	0 5	1/8	W	C024	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V
JR535	1-216-296-00	METAL CHIP	0 5	% 1/8	w	0005	1 164 000 11	ACDAMIA AULD			
	1-216-295-00			% 1/0 % 1/1		C025		CERAMIC CHIP	0. 01uF		50V
311300	1 2 10 2 3 3 - 00	MLINE GIH	0 0	1/1	UW	C026		CERAMIC CHIP	0. 01uF		50V
		/ DECICTAD \				C027		CERAMIC CHIP	0. 1uF	10%	25V
		< RESISTOR >				C028		CERAMIC CHIP	0. 1uF	10%	25V
DEA4	1 010 015 00	METAL AULB			•	C029	1-164-633-11	CERAMIC CHIP	0. 1uF	10%	25V
R504	1-216-015-00			% 1/1							
R505	1-216-015-00			% 1/1		C030	1-164-232-11	CERAMIC CHIP	0. 01uF		50 V
R506	1-216-015-00			% 1/1		C031		CERAMIC CHIP	7 P F	0.25PF	50V
R507	1-216-635-11			. 5% 1/1		C032	1-163-077-00	CERAMIC CHIP	0. 1uF	10%	25V
R508	1-216-635-11	METAL CHIP	220 0	. 5% 1/1	0 W	C033	1-124-779-00		10uF	20%	16V
						C034	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
R509	1-216-635-11			. 5% 1/1							
R510	1-216-635-11		220 0	.5% 1/1	OW W	C035	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
R511	1-216-073-00	METAL CHIP		% 1/1	0W	C036	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
R512	1-216-081-00	METAL CHIP	22K 5	% 1/1	0 W	C037	1-164-232-11	CERAMIC CHIP	0.01uF		50V
R513	1~216-015-00	METAL CHIP	39 5	% 1/1	0W	C038	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
x						C039		CERAMIC CHIP	330PF	5%	50V
R514	1-216-015-00	METAL CHIP	39 5	% 1/1							
R515	1-216-015-00	METAL CHIP	39 5	% 1/1	DW	C040	1-124-779-00	ELECT CHIP	10uF	20%	16 v
						C041	1-163-077-00	CERAMIC CHIP	0. 1uF	10%	25V
		< SWITCH >			*	C042	1-163-077-00	CERAMIC CHIP	0. 1uF	10%	25V
						C043	1-124-778-00		22uF	20%	6. 3V
		SWITCH, SLIDE	•			C044	1-124-778-00	ELECT CHIP	22uF	20%	6. 3V
******	*****	*********	******	******	*****						
4	4 7000 F70 4	DD 116 BALDS 5	MIDI ETT (-	. / 11 - 4		C045		CERAMIC CHIP	0. 1uF	10%	25V
*	A-1002-5/3-A	RP-116 BOARD, CO		et. No. 30	y Series)	1	1-162-587-11		0. 039uF	10%	25V
		******	*****			C047		CERAMIC CHIP	0.01uF		50V
						C048	1-124-779-00		10uF	20%	16v
		< CAPACITOR >				C050	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C001	1-163-087-00	CERAMIC CHIP	4PF		50V	C051	1-163-077-00	CERAMIC CHIP	0 105	1.09/	0 5 1/
C002	1-164-232-11		0. 01uF		50V	C052			0. 1uF		25V
	1-163-224-11		7PF	0.2	5PF 50V	C052	1-163-117-00		100PF	5%	50V
C004	1-164-232-11		0. 01uF	V. Z.	50V		1-163-115-00		82PF	5%	50V
C005	1-126-193-11		1uF	20%		C054	1-163-251-11		100PF	5%	50V
0000	1 120 130-11	LLLUI	IUI	2076	50V	C055	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C006	1-163-077-00		0. 1uF	10%	25V			< CONNECTOR >			
	1-164-232-11		0. 01uF		50V			. COMMEDIUM /			
C008	1-164-232-11		0. 01uF		50V	CN001	1-506-475-11	CONNECTOR	10P, MALE		
C009	1-163-031-11	CERAMIC CHIP	0.01uF		50V		1-506-468-11		3P, MALE		
									** ,		

RP-116

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description			Remark
	1 506 471 11	CONNECTOR 6P. MALE		R008	1-216-025-00	METAL CHIP	100	5%	1/10₩
CN003	1-506-471-11	PIN, CONNECTOR 7P		R009	1-216-055-00		1. 8K		1/10W
				R010	1-216-085-00		33K	5%	1/10W
		CONNECTOR, FPC (ZIF) 12P		R011	1-216-081-00		22K	5%	1/10W
CN006	1-506-467-11	CONNECTOR 2P, MALE			1-216-055-00		1. 8K		1/10W
		< DIODE >		R012	1-210-033-00	METAL CHIP	1. OK	376	17 1011
		(DIODE)		R013	1-216-055-00	METAL CHIP	1. 8K	5%	1/10W
D001	8-719-404-46	DIODE MA110		R014	1-216-089-00		47K	5%	1/10W
D001	8-719-404-46			R015	1-216-073-00		10K	5%	1/10W
D002	8-719-404-46		•	R016	1-216-081-00		22K	5%	1/10W
	8-719-404-46		1	R017	1-216-748-11		39K	1%	1/10W
		< 1C >		R018	1-216-748-11		39K	1%	1/10W
				R019	1-216-748-11		39K	1%	1/10W
1.0001	8-752-003-44	IC CX20034		R020	1-216-748-11	METAL CHIP	39K	1%	1/10W
			}	R021	1-216-081-00	METAL CHIP	22K	5%	1/10W
		< COIL >		R022	1-216-073-00	METAL CHIP	10K	5%	1/10W
				0000		METAL OHID	471/	ru/	1 /1 010
L001		INDUCTOR CHIP 18uH	1	R023	1-216-089-00		47K	5% 5%	1/10W 1/10W
L002		INDUCTOR CHIP 100uH	:	R024	1-216-031-00		180	5%	
L003		INDUCTOR CHIP 10uH		R025	1-216-001-00		10	5%	1/10W
L004		INDUCTOR CHIP 18uH		R026	1-216-073-00		10K	5%	1/10W
L005	1-410-393-11	INDUCTOR CHIP 100uH		R027	1-216-081-00	METAL CHIP	22K	5%	1/10W
L006	1-410-385-11	INDUCTOR CHIP 22uH	i	R028	1-216-073-00	METAL CHIP	10K	5%	1/10W
L007		INDUCTOR CHIP 220uH		R029	1-216-081-00	METAL CHIP	22K	5%	1/10W
L050		INDUCTOR CHIP 220uH	İ	R030	1-216-031-00	METAL CHIP	180	5%	1/10W
L051		INDUCTOR CHIP 10uH	1	R031	1-216-001-00	METAL CHIP	10	5%	1/10W
				R032	1-216-086-00	METAL CHIP	36K	5%	1/10W
		< TRANSISTOR >	ļ			•			
				R033	1-216-069-00		6. 8K		1/10W
0001	8-729-100-66	5 TRANSISTOR 2SC1623		R034	1-216-072-00		9. 1K		1/10W
Q002	8-729-100-66	S TRANSISTOR 2SC1623		R035	1-216-063-00		3. 9K		1/10W
Q003	8-729-102-07	TRANSISTOR 2SC2223-F13	Ì	R036	1-216-057-00	METAL CHIP	2. 2K		1/10W
Q004	8-729-102-07	7 TRANSISTOR 2SC2223-F13		R037	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
0005	8-729-901-01	I TRANSISTOR DTC144EK]						
				R038	1-216-048-00		910	5%	1/10W
0006	8-729-901-01	I TRANSISTOR DTC144EK	l	R039	1-216-073-00		10K	5%	1/10W
Q007	8-729-216-22	TRANSISTOR 2SA1162	ĺ	R040	1-216-025-00	METAL CHIP	100	5%	1/10W
8000	8-729-100-66	5 TRANSISTOR 2SC1623]	R041	1-216-025-00		100	5%	1/10W
Q009		TRANSISTOR 2SC1623		R050	1-216-081-00	METAL CHIP	22K	5%	1/10W
Q010	8-729-901-06	5 TRANSISTOR DTA144EK		DAC4	4 040 005 0	NETAL AULA	004	F4/	4 /4 000
		** TRANSPORT DTG14159		R051	1-216-085-00		33K	5%	1/10W
Q011		1 TRANSISTOR DTC144EK	1	R052	1-216-035-00		270	5%	1/10W
Q050		2 TRANSISTOR 2SA1162		R053	1-216-033-00		220	5%	1/10W
0051		2 TRANSISTOR 2SA1162		R054	1-216-057-00		2. 2K	5%	1/10W
Q052		2 TRANSISTOR 2SA1162		R055	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W
Q071	8-729-100-6	6 TRANSISTOR 2SC1623		BAFC	1 010 013 0	NETAL CUID	47	F0'	4 /4 012
		A DECLETAD >		R056		METAL CHIP	47	5%	1/10W
		< RESISTOR >	j	R057		METAL CHIP	47	5% 5w	1/10W
P.4.4	4 040 000 -	0 METAL ONLD 439 500	1/1011	R058		METAL CHIP	560	5%	1/10W
R001		0 METAL CHIP 47K 5%	1/10W	R073		METAL CHIP	390	5%	1/10W
R002		O METAL CHIP 1.8K 5%	1/10W	R074	1-216-025-0	METAL CHIP	100	5%	1/10W
R003		O METAL CHIP 1.8K 5%	1/10W	8435	4 040 004 0	NUTTE AND		FA.	4 /4 6/**
R004		O METAL CHIP 1.8K 5%	1/10W	R075	-	METAL CHIP	68	5%	1/10W
R005	1-216-065-0	O METAL CHIP 4.7K 5%	1/10W	R076	1-216-061-00		3. 3K	5%	1/10W
DAAC	1 016 040 0	O METAL CHIP 1K 5%	1/10₩	R080	1-216-041-0	METAL CHIP	470	5%	1/10W
R006	1-210-049-0	O METAL CHIP 1K 5%	1/10W						

Ref. No.	Part No.	Description		Re	mark	Ref. No.	Part No.	Description			Remark
		< VARIABLE RESI					~~		TD >		
		YARTABLE REST	SIUN /					< CHIP JUMPI	:K >		
		RES, ADJ, CARBO					1-216-295-00		0	5%	1/10W
		RES. ADJ. CARBO					1-216-295-00		0	5%	1/10W
******	******	**********	******	*****	****		1-216-295-00		0	5%	1/10W
		YII 444 BAABA A					1-216-295-00		0	5%	1/10W
*	A-/063-050-A	TU-100 BOARD, CO		No. 800	OSeries)	JR005	1-216-295-00	METAL CHIP	0	5%	1/10W
							1-216-295-00		0	5%	1/10W
	1-575-454-11	WIRE, FLAT TYPE	(28P)				1-216-295-00		0	5%	1/10W
					ļ		1-216-295-00		0	5%	1/10W
		< CAPACITOR >					1-216-295-00		0	5%	1/10W
0000		FLEAT				JR013	1-216-296-00	METAL CHIP	0	5%	1/8W
C003		ELECT		20%	10V						
C004		CERAMIC CHIP	0. 047uF		50V		1-216-296-00		0	5%	1/8W
C005	1-124-360-00		1000uF	20%	16V		1-216-296-00		0	5%	1/8W
C006		CERAMIC CHIP	0. 047uF		50V		1-216-296-00		0	5%	1/8W
C007	1-124-927-11	ELECT	4. 7uF	20%	1007		1-216-296-00		0	5%	1/8W
						JR018	1-216-296-00	METAL CHIP	0	5%	1/8W
C011	1-126-233-11		22uF	20%	50V						
C012			0. 047uF		50V		1-216-296-00		0	5%	1/8W
C013		CERAMIC CHIP	0. 047uF		50V		1-216-296-00		0	5%	1/8W
C014	1-124-907-11		10uF	20%	50V		1-216-296-00		0	5%	1/8W
C015	1-163-108-00	CERAMIC CHIP	43PF	5%	50V	JR023	1-216-296-00	METAL CHIP	0	5%	1/8W
						JR025	1-216-296-00	METAL CHIP	0	5%	1/8W
C016	1-163-239-11		33PF	5%	50V						
C018	1-164-004-11		0. 1uF	10%	25V		1-216-296-00		0	5%	1/8W
C019	1-164-161-11		0. 0022uF	10%	1007	JR032	1-216-296-00	METAL CHIP	0	5%	1/8W
C020			0. 0047uF	5%	50V	JR033	1-216-296-00	METAL CHIP	0	5%	1/8W
C021	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	JR034	1-216-296-00	METAL CHIP	0	5%	1/8W
					i	JR035	1-216-296-00	METAL CHIP	0	5%	1/8W
C022	1-163-037-11	CERAMIC CHIP	0. 022uF	10%	25V						•
C023	1-124-925-11	ELECT	2. 2uF	20%	1000	JR036	1-216-296-00	METAL CHIP	0	5%	1/8W
C029	1-124-907-11		10uF	20%	50V	JR038	1-216-296-00	METAL CHIP	0	5%	1/8W
C030	1-124-907-11	ELECT	10uF	20%	50V	JR039	1-216-296-00	METAL CHIP	0	5%	1/8W
C032	1-163-035-00	CERAMIC CHIP	0. 047uF		50V		1-216-296-00		0	5%	1/8W
					[JR097	1-216-295-00	METAL CHIP	0	5%	1/10W
C033	1-126-233-11	ELECT	22uF	20%	50V						
	1-126-233-11	ELECT	22uF	20%	-50V			< COIL >			
C037	1-124-907-11	ELECT		20%	50V						
C039	1-124-907-11	ELECT	10uF	20%	50V	L001	1-408-413-00	INDUCTOR	22uH		
					İ	L003	1-408-408-00		8. 2uH		
		< CONNECTOR >			ŀ	L004	1-408-408-00		8. 2uH		
							1-408-408-00		8. 2uH		
CN001	1-563-605-11	CONNECTOR, FLEXI	BLE 28P			L008	1-408-408-00		8. 2uH		
		< DIODE >				Ł010	1-408-409-00	INDUCTOR	10uH		
0000	0 710 400 10	DIARE MATANE			1						
	8-719-400-18 8-719-104-34						× .	< DECODER >			
		< 10 >				MP001	1-466-072-11	DECODER BLOC	K, MULTIPL	E SOU	ND
10001	8-759-157-40	IC uPC574J						< TRANSISTOR	>		
						Q001	8-729-100-66	TRANSISTOR	2SC1623		
		< IF BLOCK >				0002	8-729-900-53		DTC114EK		
					İ	0003	8-729-216-22		2SA1162		
IF001	1-466-582-11	IF BLOCK (IFY-45	OCD)				8-729-100-66		2SC1623		

TU-100 UC-8 VI-104

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			nark
		TDANCICTOD	2001622			R080	1-216-089-00	METAL CHIP	47K 5%	1/10W	
0006	8-729-100-66 8-729-100-66		2SC1623 2SC1623			R081	1-216-025-00		100 5%	1/10W	
0008	8-729-100-00		DTC144EK			R083	1-216-049-00		1K 5%	1/10W	
Q010 Q014	8-729-216-22		2SA1162			R096	1-216-049-00		1K 5%	1/10W	
4014	0-129-210-22	INANGISION	2001102		İ	11000				.,	
		< RESISTOR >		,				< VARIABLE RESI	STOR >		
R001	1-216-295-00	METAL CHIP	0	5%	1/10W	RV001	1-228-994-00	RES. ADJ. METAL	10K		
R002	1-216-295-00		Ō	5%	1/10W			1120, 1120, 11121111			
R002	1-216-295-00		Ö	5%	1/10W			< TUNER >			
R004	1-216-212-00		3. 9K		1/8W						
R005	1-216-210-00		3. 3K	5%	1/8W	<u></u> ⚠ . TU001	1-465-239-11	TUNER, ET			
,,,,,,						******	******	******	*******	******	****
R008	1-216-025-00	METAL CHIP	100	5%	1/10W						
R009	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W	*	A-7062-575-A	UC-8 BOARD, COMP	LETE (Ref. N	o.6000 S	eries)
R011	1-216-047-00		820	5%	1/10W			******	****		
R012	1-216-035-00	METAL CHIP	270	5%	1/10W						
R013	1-216-053-00	METAL CHIP	1. 5K	5%	1/10W			< CONNECTOR >			
R014	1-216-121-00	METAL CHIP	1M	5%	1/10W	CN101	1-566-529-11	CONNECTOR, FPC	(ZIF) 13P		
R015	1-216-065-00		4. 7K		1/10W			CONNECTOR, FPC			
R016	1-216-059-00		2. 7K		1/10W						
R017	1-216-063-00		3. 9K		1/10W			< DIODE >			
R018	1-216-053-00		1. 5K	5%	1/10W						
						D101	8-719-104-34	D10DE 182836			
R021	1-216-295-00	METAL CHIP	0	5%	1/10W	D102	8-719-104-34				
R022	1-216-748-11		39K	1%	1/10W	D103	8-719-104-34				
R023	1-216-091-00	METAL CHIP	56K	5%	1/10W	D104	8-719-104-34	DIODE 182836			
R025	1-216-295-00		0	5%	1/10W						
R026	1-216-295-00	METAL CHIP	0	5%	1/10W			< CABLE >			
R031	1-216-295-00	METAL CHIP	0	5%	1/10W	W101	1-575-392-21	CABLE, FLAT (1.	OMM PITCH)	14P	
R034	1-216-295-00		0	5%	1/10W	*****	********	******	*******	******	****
R041	1-216-295-00	METAL CHIP	0	5%	1/10W						
R043	1-216-071-00	METAL CHIP	8. 2 K	5%	1/10W	*	A-7063-141-A	VI-104 BOARD, CO)MPLETE (Ref	. No. 7000	Series)
R044	1-216-295-00) METAL CHIP	0	5%	1/10W			**************************************		d)	
R048	1-216-295-00	METAL CHIP	0	5%	1/10W						
R050	1-216-085-00	METAL CHIP	33K	5%	1/10W		3-710-578-01	COVER, VOLUME,	6 MOLD		
R051	1-216-091-00	METAL CHIP	56K	5%	1/10W						
R052	1-216-295-00	METAL CHIP	0	5%	1/10W			< CAPACITOR >			
R053	1-216-295-00	METAL CHIP	0	5%	1/10W						
						C101	1-126-157-11		10 u F	20%	16V
R054	1-216-047-00		820	5%	1/10W	C102	1-124-465-00		0. 47uF	20%	50V
R056		METAL CHIP	100	5%	1/10W	C103		CERAMIC CHIP	0.01uF	0.00/	50V
R058		METAL CHIP	0	5%	1/10W	C104	1-126-154-11		47uF	20%	6. 3V
R064		O METAL CHIP	0	5%	1/10W	C105	1-103-036-00	CERAMIC CHIP	0. 1uF		25V
R065	1-216-295-0	O METAL CHIP	0	5%	1/10W	C106	1-154-222-11	CERAMIC CHIP	0. 22uF		25V
R066	1-216-205-0	O METAL CHIP	0	5%	1/10W	C107		CERAMIC CHIP	0. 22ur 0. 47uF		25V
R067		O METAL CHIP	Ö	5%	1/10W	C108	1-126-157-11		10uF	20%	16V
R068		O METAL CHIP	0	5%	1/10W	C109	1-126-163-11		4. 7uF	20%	50V
R069		O METAL CHIP	820	5%	1/10W	C110		CERAMIC CHIP	0.0033uF	10%	50V
R070		O METAL CHIP	820	5%	1/10W						
						C111	1-163-833-00	CERAMIC CHIP	0.068uF		25V
R073	1-216-049-0	O METAL CHIP	1 K	5%	1/10W	C112	1-126-157-11	ELECT	10uF	20%	16V
R077		O METAL CHIP	1 K	5%	1/10W	C113	1-163-035-00	CERAMIC CHIP	0. 047uF		50V
R079	1-216-089-0	O METAL CHIP	47 K	5%	1/10W	C114	1-163-038-00	CERAMIC CHIP	0.1uF		25V
						•					

Note:
The components identified by mark A or dotted line with mark A are critical for safety.
Replace only with part number specified.

Note:

Les composants identifiés par une marque \(\frac{\Lambda}{\Lambda}\) sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description		Re	emark	Ref. No.	Part No.	Description		R	emark
C115	1-163-201-00	CERAMIC CHIP	680PF	5%	50V	C172	1-163-031-11	CERAMIC CHIP	0. 01uF	_	50V
C116	1-126-154-11		47uF	20%	6. 3V	C173		CERAMIC CHIP	120PF	5%	50V
C117		CERAMIC CHIP	68PF	5%	50V	C174		CERAMIC CHIP	390PF	5%	
C118	1-163-031-11		0. 01uF	0,4	50V	C175					50V
C119		CERAMIC CHIP	0. 01uf		50V	C175		CERAMIC CHIP	180PF	5%	50V
0113	1-103-031-11	CENAMIC CITY	v. viur		304	0170	1-103-115-00	CERAMIC CHIP	82PF	5%	50V
C120	1-126-157-11		10uF	20%	16V	C177	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C121	1-126-157-11		10uF	20%	167	C180	1-126-176-11	ELECT	220uF	20%	107
C122		CERAMIC CHIP	0. 01uF		50V	C181	1-163-035-00	CERAMIC CHIP	0.047uF		50 V
C123	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	C182	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C124	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	C183	1-126-154-11	ELECT	47 u F	20%	6.3V
C125	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	C184	1-126-154-11	FLECT	47 u F	20%	6. 3V
C126	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	C185	1-163-125-00		220PF	5%	50V
C127		CERAMIC CHIP	82PF	5%	507	C190	1-124-472-11		470uF	20%	107
C128	1-163-243-11		47PF	5%	50V	C195	1-126-157-11		10uF	20%	16V
C129	1-164-005-11		0. 47uF	•.•	257	C201	1-126-154-11		47uF	20%	6. 3V
			** ***]	0201	1 120 104 11	LLLOI	4701	2076	D. 3V
C130	1-126-157-11	ELECT	10uF	20%	16V	C202	1-126-154-11	ELECT	47uF	20%	6. 3V
C131	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	C203	1-124-638-11	ELECT	22uF	20%	107
C132	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	C204	1-163-243-11		47PF	5%	507
C133	1-126-157-11	ELECT	10uF	20%	16V	C250	1-126-154-11		47uF	20%	6. 3V
C134	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	C251	1-126-154-11		47uF	20%	6. 3V
									4101	207	0. 01
C135	1-126-162-11		3. 3uF	20%	50V	C252	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C136	1-163-031-11		0.01uF		50V	C253	1-163-235-11	CERAMIC CHIP	22PF	5%	50 V
C137	1-126-157-11	ELECT	10uF	20%	16V	C254	1-124-638-11	ELECT	22uF	20%	107
C138	1-126-162-11	ELECT	3. 3uF	20%	50V	C255	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C139	1-126-162-11	ELECT	3. 3uF	20%	50V	C256	1-126-154-11	ELECT	47uF	20%	6. 3V
C141	1-126-157-11	ELECT	10uF	20%	167	C257	1-126-157-11	FLECT	10uF	20%	16V
C142	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	C258	1-163-097-00		15PF	5%	50V
C143	1-163-251-11		100PF	5%	507	C259	1-163-105-00		33PF	5%	50V
C144	1-124-471-00		1000uF	20%	6. 3V	C260	1-124-638-11				
C145	1-126-154-11		47uF	20%	6. 3V	C261	1-124-038-11		22uF 10uF	20% 20%	10V 16V
0140	7 120 101 11		7741	20%	0.07	0201	1-120-137-11	ELLOT	iuur	20%	107
C148	1-163-101-00	CERAMIC CHIP	22PF	5%	50V	C301	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C150	1-126-154-11	ELECT	47uF	20%	6. 3V	C302	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C151	1-163-031-11	CERAMIC CHIP	0.01uF		-50V	C303	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
C152	1-124-584-00	ELECT	100uF	20%	107	C304	1-163-121-00		150PF	5%	50V
C153	1-163-123-00	CERAMIC CHIP	180PF	5%	50V	C305	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
0155	1 100 007 00	OFDAMIO OUID	1505	F4/	504						
C155	1-163-097-00		15PF	5%	50V	C306	1-163-038-00		0. 1uF		25V
C156	1-163-111-00		56PF	5%	50V	C307	1-163-113-00		68PF	5%	50 V
C158	1-124-472-11		470uF	20%	10V	C308	1-163-017-00		0. 0047uF	5%	50 V
C159	1-163-031-11		0. 01uF		50V	C309	1-163-031-11		0. 01uF		50 V
C160	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	C310	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C161	1-126-154-11	ELECT	47uF	20%	6. 3V	C311	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C162	1-163-017-00	CERAMIC CHIP	0. 0047uF	5%	50V	C312	1-163-113-00		68PF	5%	50V
C163	1-163-121-00	CERAMIC CHIP	150PF	5%	50V	C313	1-163-251-11		100PF	5%	50V
C164	1-126-154-11		47uF	20%	6. 3V	C314	1-163-038-00		0. 1uF	V/1	25V
C166	1-126-154-11		47uF	20%	6. 3V	C315	1-163-031-11		0. 01uF		50V
C167	1-163-115-00	CERAMIC CHIP	82PF	5%	50V -	C316	1-126-154-11	ELECT	475	0.00/	c
C168	1-126-154-11		47uF	20%	6. 3V	C316	1-126-154-11		47uF	20%	6. 3V
C170	1-163-229-11		12PF	5%	50V	C318	1-126-154-11		47uF	20%	6. 3V
C171	1-163-099-00		18PF	5%	50V				47uF	20%	6. 3V
VIII	1-100-035-00	OLARMIO VAIT	1011	U20	90 V	C319	1-163-031-11	CERAMIC CHIP	0. 01uF		50V

Ref. No.	Part No.	Description		Remark		Ref. No.	Part No.	Description		Rema	rk
C320	1-163-115-00	CERAMIC CHIP	82PF	5%	50V	C432	1-126-157-11	ELECT	10uF	20%	16V
C321		CERAMIC CHIP	330PF	5%	50V	C433	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C322		TANTALUM CHIP	1uF	20%	16V	C502	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
C323		TANTALUM CHIP	0. 68uF	10%	20V	C503	1-126-373-11	ELECT	470uF	20%	10V
C324	1-126-157-11		10uF	20%	167	C504	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C325	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	C505	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C326	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	C506	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
C327	1-163-245-11	CERAMIC CHIP	56PF	5%	50V	C507	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
C328	1-163-229-11	CERAMIC CHIP	12PF	5%	50V	C508	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
C329	1-163-031-11	CERAMIC CHIP	0.01uF		50V	C510	1-163-031-11	CERAMIC CHIP	0.01uF		507
C331	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	C511		CERAMIC CHIP	0.01uF		50V
C332	1-163-031-11	CERAMIC CHIP	0. 01uF		507	C512	1-164-232-11	CERAMIC CHIP	0. 01MF	5%	50 V
C333	1-135-091-00	TANTALUM CHIP	1uF	20%	16V	C513	1-163-031-11	CERAMIC CHIP	0.01uF		50 V
C334	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	C514	1-163-031-11	CERAMIC CHIP	0. 01uF		50 V
C335	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	C515	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C336	1-163-059-00	CERAMIC CHIP	0. 01uF	10%	50V	C516	1-126-154-11	ELECT	47uF		5. 3V
C337	1-163-253-11	CERAMIC CHIP	120PF	5%	50V	C517	1-163-241-11	CERAMIC CHIP	39PF	5%	50V
C338	1-163-031-11	CERAMIC CHIP	0.01uF		50V	C518	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C339	1-163-115-00	CERAMIC CHIP	82PF	5%	50V	C519	1-163-031-11	CERAMIC CHIP	0. 01uF		50V
C401	1-163-031-11	CERAMIC CHIP	0.01uF		50V	C520	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C402	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	C521		CERAMIC CHIP	180PF	5%	50V
C403	1-126-157-11		10uF	20%	16V	C522		CERAMIC CHIP	75PF	5%	50 V
C404	1-163-031-11	CERAMIC CHIP	0.01uF		50 V	C527	1-126-154-11		47uF	20%	5. 3V
C405	1-126-154-11		47uF	20%	8. 3V	C528		CERAMIC CHIP	0. 1uF		25V
C406	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	C529	1-163-031-11	CERAMIC CHIP	0. 01uf		50V
C407	1-163-031-1	CERAMIC CHIP	0. 01uF		50V	C530		CERAMIC CHIP	0. 047uF		50V
C408	1-126-157-1	I ELECT	10uF	20%	16V	C531		CERAMIC CHIP	0. 0015uF	5%	50V
C409	1-126-157-1	I ELECT	10uF	20%	16V	C532		CERAMIC CHIP	270PF	5%	50V
C410	1-163-031-1	CERAMIC CHIP	0. 01uF		50V	C533	1-163-035-00	CERAMIC CHIP	0. 047uF		50V
C411	1-126-157-1	I ELECT	10uF	20%	16V	C534	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C412	1-126-154-1		47uF	20%	6. 3V	C535		CERAMIC CHIP	39PF	5%	50V
C413	1-126-154-1	I ELECT	47uF	20%	6. 3V	C536	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C414	1-163-031-1	I CERAMIC CHIP	0. 01uF		50V	C537	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C415	1-126-157-1		10uF	20%	16V	C538	1-163-120-00	CERAMIC CHIP	130PF	5%	50 V
C416	1-126-154-1	1 ELECT	47uF	20%	6. 3V	C539	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C417	1-126-154-1	1 ELECT	47uF	20%	6. 3V	C540		CERAMIC CHIP	0. 01uF		50V
C418	1-126-154-1	1 ELECT	47uF	20%	6. 3V	C541	1-126-157-11		10uF	20%	16V
C419	1-163-031-1	1 CERAMIC CHIP	0.01uF		50V	C542	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C420	1-126-157-1	1 ELECT	10uF	20%	16V	C543		I CERAMIC CHIP	0. 01uF		50V
C421	1-126-154-1	1 ELECT	47uf	20%	6. 3V	C544	1-163-224-11	CERAMIC CHIP	7PF	0. 25PF	50V
C422	1-126-154-1		47uF	20%	6. 3V	C545		CERAMIC CHIP	10PF	5%	50V
C423		1 CERAMIC CHIP	0. 01uF		50V	C546		CERAMIC CHIP	0. 01uF		50V
C424		1 CERAMIC CHIP	0. 01uF		50V	C547	1-126-157-1		10uF	20%	16V
C426	1-126-154-1		47uF	20%	6. 3V	C548		CERAMIC CHIP	0. 1uF	F#/	25V
C427	1-163-031-1	1 CERAMIC CHIP	0. 01uF		50V	C549	1-163-102-00	CERAMIC CHIP	24PF	5%	50V
C428	1-126-154-1	1 ELECT	47uF	20%	6. 3V	C550	1-164-232-1	CERAMIC CHIP	0.01uF		50V
C429	1-126-154-1		47uF	20%	6. 3V	C551		CERAMIC CHIP	0. 047uF	10%	25V
C430	1-126-154-1		47uF	20%	6. 3V	C552		CERAMIC CHIP	22PF	5%	50V
C431	1-126-154-1		47uF	20%	6. 3V	C553		CERAMIC CHIP	0. 047uF	10%	25V
0701							•				

Ref. No.	Part No.	Description		Remark		Ref. No.	Part No.	Descri			Remark
C554		CERAMIC CHIP	0. 1uF		25V			< FILTI			
C555		CERAMIC CHIP	0. 022uF	10%	25V						
C556		CERAMIC CHIP	8PF		50V	CF301	1-567-306-11	FILTER,	CERAMIC		
C557		CERAMIC CHIP	2PF		50V						
C558	1-164-232-11	CERAMIC CHIP	0. 01uF		50V			< CONNI	CTOR >		
C559		CERAMIC CHIP	7PF	0. 25PF			1-568-082-11				
C560		CERAMIC CHIP	18PF	5%	50V	CN102	1-568-078-11	CONNECT	TOR (RECE		
C561		CERAMIC CHIP	0.01uF		50V		1-506-469-11			4P, MALE	
C562		CERAMIC CHIP	0. 01uF		50V		1-506-469-11			4P, MALE	
C563	1-163-038-00	CERAMIC CHIP	0. 1uf		25V	CN105	1-506-471-11	CONNECT	OR	6P, MALE	
C 5 6 4	1-163-038-00	CERAMIC CHIP	0. 1uF		25V	CN106	1-506-469-11	CONNECT	OR	4P, MALE	
C565	1-163-038-00	CERAMIC CHIP	0. 1uF		25V						
C586	1-164-232-11	CERAMIC CHIP	0. 01uF		50V			< DIODE	>		
C568	1-163-037-11	CERAMIC CHIP	0. 022uF	10%	25V						
C569	1-163-037-11	CERAMIC CHIP	0. 022uF	10%	25V	D101	8-719-400-18	DIODE	MA152WK		
						D102	8-719-400-18		MA152WK		
C570	1-164-232-11	CERAMIC CHIP	0. 01uF		50V	D104	8-719-400-18		MA152WK		
C571	1-163-229-11		12PF	5%	50V	D107	8-719-400-18		MA152WK		
C572	1-163-037-11		0. 022uF	10%	25V	D109	8-719-104-34		152836		
C574	1-163-116-00		91PF	5%	50V	0100	0 110 104 04	DIODL	102000		
C576	1-163-038-00		0. 1uF	•••	25V	D201	8-719-104-34	DIODE	182836		
						D301	8-719-104-34		152836		
C577	1-163-031-11	CERAMIC CHIP	0. 01uF		50V	D501	8-719-800-76		188226		
C579	1-163-243-11		47PF	5%	50V	0502	8-719-800-76				
C580	1-163-031-11		0. 01uF	374	50V	D502	8-719-800-76		188226		
C581	1-163-031-11		0. 01uF		50V	0000	0-113-000-10	DIODE	188226		
C582	1-163-031-11		0. 01uF		50V	D504	8-719-400-18	DIADE	MA152WK		
		• • • • • • • • • • • • • • • • • • • •			***	D801	8-719-104-34		182836		
C583	1-163-121-00	CERAMIC CHIP	150PF	5%	50V				102000		
C584	1-163-121-00		150PF	5%	50V			< FILTE	D \		
C585	1-163-241-11		39PF	5%	50V			\	11 /		
C586	1-163-113-00		68PF	5%	50V	FI 10.1	1-239-169-11	FILTED	I AW DAC	e (v)	
C704	1-126-301-11		1uF	20%	50V		1-236-774-11				
				2076	***		1-239-168-11				
C705	1-126-301-11	FLECT	1uF	20%	50V		1-239-170-11				
C706	1-163-031-11		0. 01uF	2070	50V	E1303	1-239-171-11	FILIEN,	CUROMA	BAND PASS	
C707	1-126-301-11		1uF	20%	50V	11302	1-239-171-11	LILIEN,	UNKUMA	BAND PASS	
C708	1-126-301-11		1uF	20%	50V	E1 501	1-409-466-11	TDAD			
C709	1-163-031-11		0. 01uF	2076	50V	1 1 30 1	1-403-400-11	INAF			
0,00		CENTANTO OTTE	V. V (U)					< 10 >			
C711	1-126-301-11	ELECT	1uF	20%	50V						
C712	1-126-301-11	ELECT	1uF	20%	50V	IC101	8-752-054-87	IC CX	A1207AQ		
C713	1-163-031-11	CERAMIC CHIP	0.01uF		50V		8-759-710-86		M2233BM		
C714	1-163-031-11		0. 01uF		50V	IC103	8-759-710-86		M2233BM		
C715	1-126-154-11	ELECT	47uF	20%	6. 3V	IC104			M2233BM		
							8-759-710-86		M2233BM		
C716	1-126-154-11		47uF	20%	6. 3V						
C717	1-163-031-11		0. 01uF		50V				M2233BM		
C718	1-126-154-11		47uF		6. 3V		8-759-008-67		14066BF		
C850	1-102-947-00		10PF	5%	50V		1-808-584-11		M2209S		
C912	1-164-232-11	CERAMIC CHIP	0.01uF		50V	IC109	8-759-504-46		05RF1		
		AFR4111 A				IC301	8-752-039-34	IC CX	A1208Q		
C913	1-163-127-00		270PF	5%	50V						
C914	1-163-243-11	CERAMIC CHIP	47PF	5%	50V		8-759-998-32		D-2107M		
							8-759-925-60		401		
					l	10701	8-752-052-58	IC CX	A1410M		

VI-104

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
		< CHIP JUMPER	`			ŀ	1-216-295-00	MFTAL CHIP	0	5%	1/10W
		CONT. COMPER	•				1-216-295-00		Ō	5%	1/10W
10001	1-216-296-00	METAL CHIP	0	5%	1/8W		1-216-296-00		0	5%	1/8W
	1-216-296-00		Ō	5%	1/8W		1-216-296-00		Ö	5%	1/8W
	1-216-295-00		Ô	5%	1/10W	1	1-216-296-00		Ö	5%	1/8W
			0	5%	1/10W	3,,00	1 210 230 00	WEINE OIII	•	0,,	1, 0,1
	1-216-295-00		0	5%	1/8W	IDUES	1-216-295-00	METAL CHIP	0	5%	1/10W
18002	1-216-296-00	METAL CHIP	U	376	1/011		1-216-296-00		0	5%	1/8W
		METAL AND	•	F#/	4 /014	P			0	5%	1/8W
	1-216-296-00		0	5%	1/8W	1	1-216-296-00		0		-
	1-216-295-00		0	5%	1/10W		1-216-296-00			5%	1/8W
	1-216-296-00		0	5%	1/8W	JRU12	1-216-295-00	METAL CHIP	0	5%	1/10W
****	1-216-296-00		0	5%	1/8W						
JR013	1-216-295-00	METAL CHIP	0	5%	1/10W	1	1-216-296-00		0	5%	1/8W
							1-216-296-00		0	5%	1/8W
	1-216-295-00		0	5%	1/10W		1-216-295-00		0	5%	1/10W
JR016	1-216-295-00	METAL CHIP	0	5%	1/10W	JR077	1-216-296-00	METAL CHIP	0	5%	1/8W
JR017	1-216-295-00	METAL CHIP	0	5%	1/10W	JR080	1-216-295-00	METAL CHIP	0	5%	1/10W
			0	5%	1/10W						
	1-216-295-00		0	5%	1/10W	JR081	1-216-296-00	METAL CHIP	0	5%	1/8W
011010	, 210 200 00		•		.,		1-216-296-00		0	5%	1/8W
10000	1-216-295-00	METAL CHIP	0	5%	1/10W		1-216-296-00		Ō	5%	1/8W
	1-216-296-00		Ö	5%	1/8W		1-216-296-00		Ŏ	5%	1/8W
			0	5%	1/8W		1-216-295-00		Õ	5%	1/10W
JR025			0			3,000	1-210-233-00	MLINE VIIII	v	3/4	17 1011
			-	5%	1/8W	10000	1 010 005 00	METAL AUID	0	5%	1/10W
JR029	1-216-296-00	METAL CHIP	0	5%	1/8W		1-216-295-00				
			_				1-216-295-00		0	5%	1/10W
JR030	1-216-296-00		0	5%	1/8W		1-216-296-00		0	5%	1/8W
JR031			0	5%	1/8W	1	1-216-295-00		0	5%	1/10W
JR032	1-216-296-00	METAL CHIP	0	5%	1/8W	JR093	1-216-295-00	METAL CHIP	0	5%	1/10W
JR033	1-216-295-00	METAL CHIP	0	5%	1/10W						
JR034	1-216-295-00	METAL CHIP	0	5%	1/10W	JR094	1-216-295-00	METAL CHIP	0	5%	1/10W
						JR095	1-216-296-00	METAL CHIP	0	5%	1/8W
JR035	1-216-296-00	METAL CHIP	0	5%	1/8W	JR096	1-216-296-00	METAL CHIP	0	5%	1/8W
	1-216-296-00		0	5%	1/8W	JR097	1-216-296-00	METAL CHIP	0	5%	1/8W
JR037			0	5%	1/10W	JR098	1-216-295-00	METAL CHIP	0	5%	1/10W
	1-216-295-00		Ô	5%	1/10W						
	1-216-295-00		Ŏ	5%	1/10W	JR099	1-216-296-00	METAL CHIP	0	5%	1/8W
011003	1 210 200 00	merke onn	•	• • • • • • • • • • • • • • • • • • • •	.,		1-216-296-00		Ö	5%	1/8W
10040	1-216-296-00	METAL CHID	0	5%	1/8W	1	1-216-295-00		ő	5%	1/10W
	1-216-296-00		0	5%	1/8W	II	1-216-296-00		0	5%	1/8W
			0	5%	1/10W		1-216-296-00		0	5%	1/8W
	1-216-295-00		-			38103	1-510-530-00	MLIME VIII	U	370	1/01/
	1-216-295-00		0	5%	1/10W	10464	1 010 000 00	METAL AUID	0	E 0/	1 /1011
JK047	1-216-295-00	J METAL CHIP	0	5%	1/10W			METAL CHIP	0	5%	1/10W
					4 /000		1-216-295-00		•	5%	1/10W
	1-216-296-00			5%				METAL CHIP			
	1-216-296-00		0	5%	1/8W		1-216-296-00		0	5%	1/8W
JR053	1-216-295-00	METAL CHIP	0	5%	1/10W	JR108	1-216-296-00	METAL CHIP	0	5%	1/8W
JR054		METAL CHIP	0	5%	1/8W						
JR055	1-216-295-00	D METAL CHIP	0	5%	1/10W	JR109	1-216-296-00	METAL CHIP	0	5%	1/8W
						JR110	1-216-296-00	METAL CHIP	0 -	5%	1/8W
JR056	1-216-295-00	O METAL CHIP	0	5%	1/10W	JR111	1-216-295-00	METAL CHIP	0	5%	1/10W
	1-216-295-0		0	5%	1/10W	JR112	1-216-295-00	METAL CHIP	0	5%	1/10W
	1-216-295-0		Ö	5%	1/10W	1	1-216-296-00		Ŏ	5%	1/8W
JR059			Ŏ	5%	1/10W				•		-r
JR060			Ö	5%	1/10W	JR115	1-216-296-00	METAL CHIP	0	5%	1/8W
JNUOU	1 210-230-0	WEINE VIIII	٧	V/4	17 1011		1-216-295-00		Ŏ	5%	1/10W
IDAC 1	1-216-296-0	NETAL CHIP	0	5%	1/8W		1-216-295-00		Ö	5%	1/10W
			0	5%	1/0W				0	5%	
JKU62	1-216-295-0	U MEIAL UNIT	V	376	17 101	1 Julia	1-216-295-00	MEINE OFF	U	3%	1/10W

Kemark

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description	
JR119	1-216-295-00	METAL CHIP	0	5%	1/10W	L104	1-407-169-XX	INDUCTOR	100uH
	1-216-295-00		Ŏ	5%	1/10W		1-408-975-21		27uH
	1-216-295-00		Ŏ	5%	1/10W		1-408-979-21		56uH
	1-216-296-00		0	5%	1/8W	L107	1-408-970-21		10uH
	1-216-296-00		Ŏ	5%	1/8W	L108	1-407-169-XX		
VII.12.	. 2,0 200 00	merne onn	٠	070	17 011	£100	1-407-103-77	INDUCTOR	100uH
JR125	1-216-296-00	METAL CHIP	0	5%	1/8W	L109	1-408-975-21	INDUCTOR	27uH
JR126	1-216-296-00	METAL CHIP	0	5%	1/8W	1111	1-407-169-XX		100uH
JR127	1-216-295-00	METAL CHIP	0	5%	1/10W	L112	1-408-967-21		5. 6uH
JR128	1-216-295-00	METAL CHIP	0	5%	1/10W	L113	1-408-970-21		10uH
JR129	1-216-296-00	METAL CHIP	0	5%	1/8W	L114	1-408-979-21		56uH
					. 1				
JR130	1-216-295-00		0	5%	1/10W	L116	1-408-974-21		22uH
JR131	1-216-295-00		0	5%	1/10W	L118	1-408-977-21	INDUCTOR	39 u H
	1-216-295-00		0	5%	1/10W	L119	1-407-169-XX	INDUCTOR	100uH
	1-216-295-00		0	5%	1/10W	L120	1-408-968-21	INDUCTOR	6. 8uH
JR135	1-216-296-00	METAL CHIP	0	5%	1/8W	L121	1-407-169-XX	INDUCTOR	100uH
JR136	1 215 205 00	METAL CUID	0	t W	1./0111				
	1-216-296-00		0	5%	1/8W	L122	1-408-948-00		220uH
	1-216-296-00 1-216-295-00		-	5%	1/8W		1-412-956-21		27uH
	1-216-296-00		0	5%	1/10W	L251	1-408-977-21		39uH
JR139 JR140	1-216-296-00		0	5%	1/8W		1-408-979-21		56 u H
JK 140	1-210-290-00	MEIAL CHIP	U	5%	1/8W	L 2 5 3	1-408-977-21	INDUCTOR	39uH
JR141	1-216-296-00	METAL CHIP	0	5%	1/8W	L301	1-407-169-XX	INDUCTOR	100uH
	1-216-295-00		Ö	5%	1/10W	L302	1-408-983-21	INDUCTOR	120uH
	1-216-296-00		Ó	5%	1/8W	L303	1-408-981-21		82uH
	1-216-295-00		0	5%	1/10W		1-408-984-21		150uH
JR160	1-216-295-00	METAL CHIP	0	5%	1/10W		1-408-984-21		150uH
	1-216-296-00		0	5%	1/8W		1-408-974-21		22uH
	1-216-296-00		0	5%	1/8W		1-408-974-21	INDUCTOR	22uH
	1-216-296-00		0	5%	1/8W		1-408-987-21	INDUCTOR	330uH
	1-216-296-00		0	5%	1/8W		1-408-984-21		150uH
JR165	1-216-296-00	METAL CHIP	0	5%	1/8W	L401	1-407-169-XX	INDUCTOR	100uH
JR166	1-216-295-00	METAL CHIP	0	5%	1/10W	L402	1-407-169-XX	INDUCTOR	100
	1-216-295-00		Ō	5%	1/10W		1-407-169-XX		100uH
	1-216-296-00		Ò	5%	1/8W		1-408-970-21		100uH
	1-216-296-00		0	5%	1/8W		1-408-969-21		10uH
	1-216-296-00		0	5%	1/8W				8. 2uH
• • • • • • • • • • • • • • • • • • • •	. 2.0 200 00	WEINE VIII	v	U/4	17 011	1000	1-408-987-21	INDUCION	330uH
	1-216-296-00		0	5%	1/8W	L504	1-408-983-21	INDUCTOR	120uH
JR172	1-216-296-00	METAL CHIP	0	5%	1/8W		1-410-072-21		820uH
JR173	1-216-296-00	METAL CHIP	0	5%	1/8W		1-408-970-21		10uH
JR174	1-216-296-00	METAL CHIP	0	5%	1/8W		1-408-963-11		2. 7uH
JR200	1-216-296-00	METAL CHIP	0	5%	1/8W		1-408-968-21		6. 8uH
10000	1 010 005 55	METAL AND							
	1-216-295-00		0	5%	1/10W		1-408-968-21		6. 8uH
	1-216-295-00		0		1/10W		1-408-973-21		18uH
	1-216-296-00		0		1/8W		1-408-989-21		470uH
JK223	1-216-296-00	METAL CHIP	0	5%	1/8W		1-408-989-21		470uH
		< COIL >				L514	1-408-973-21	INDUCTOR	18uH
						L515	1-407-169-XX	NDUCTOR	100uH
	1-408-978-21		47uH			L516	1-408-975-21	INDUCTOR	27uH
	1-408-968-21		6. 8uH				1-408-970-21		10uH
L103	1-407-169-XX	INDUCTOR	100uH		l	L518	1-407-169-XX	INDUCTOR	100uH

VI-104

	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark
 L519	1-407-169-XX	INDUCTOR	100uH		Q145	8-729-901-06	TRANSISTOR	DTA144EK	
L520	1-408-987-21		330uH		Q146	8-729-102-07		2SC2223-F13	
L521	1-408-985-21		180uH		0147	8-729-102-07	TRANSISTOR	2SC2223-F13	
L521	1-408-984-21		150uH		0150	8-729-216-22		2SA1162	
L523	1-408-948-00		220uH		0151	8-729-216-22		2SA1162	
							70.00.0700	0004000	
L703	1-407-169-XX		100uH	İ	Q152	8-729-100-66		2801623	
L904	1-408-970-21	INDUCTOR	10uH		0153	8-729-100-66		2SC1623	
				i	0155	8-729-901-06		DTA144EK	
		< TRANSISTOR	>		Q156 Q157	8-729-102-07 8-729-100-66		2SC2223-F13 2SC1623	
0101	8-729-901-06	TRANSISTOR	DTA144EK	ļ	4101	0 123 100 00	111/110101011	2001020	
Q102	8-729-901-01		DTC144EK		0158	8-729-100-66	TRANSISTOR	2801623	
Q102	8-729-901-06		DTA144EK		Q159	8-729-100-66		2801623	
0104	8-729-901-01		DTC144EK		0160	8-729-901-01		DTC144EK	
0105	8-729-901-06		DTA144EK		0161	8-729-901-01	TRANSISTOR	DTC144EK	
					Q170	8-729-901-06	TRANSISTOR	DTA144EK	
0106	8-729-901-01		DTC144EK						
Q107	8-729-901-06		DTA144EK		0171	8-729-901-01		DTC144EK	
0108	8-729-901-01	TRANSISTOR	DTC144EK		0172	8-729-901-06		DTA144EK	
Q109	8-729-901-06	TRANSISTOR	DTA144EK		0173	8-729-901-01		DTC144EK	
Q110	8-729-901-01	TRANSISTOR	DTC144EK		Q174	8-729-901-01		DTC144EK	
					Q175	8-729-901-01	TRANSISTOR	DTC144EK	
0111	8-729-901-06		DTA144EK		0470	0 700 001 01	TRANSIATAR	DT0144FV	
0112	8-729-901-01		DTC144EK	1	0176	8-729-901-01		DTC144EK	
0113	8-729-901-01		DTC144EK		0177	8-729-901-01		DTC144EK	
0114	8-729-901-06		DTA144EK		Q178 Q179	8-729-901-01 8-729-901-01		DTC144EK DTC144EK	
Q115	8-729-901-01	IKANSISIUK	DTC144EK		Q180	8-729-901-01		DTC144EK	
Q116	8-729-901-06	GOT 21 2 MAGT	DTA144EK		2100	0 723 301 01	INAMOTOTOR	DIVITACK	
0117	8-729-320-17		2SA1122-CD		Q181	8-729-901-01	TRANSISTOR	DTC144EK	
0118	8-729-901-06		DTA144EK		0182	8-729-901-01		DTC144EK	
0119	8-729-202-38		2SC3326N	İ	Q183	8-729-901-01		DTC144EK	
Q113	8-729-202-38		2SC3326N	1	0184	8-729-901-01		DTC144EK	
4,20	0 120 202 00		2000000		Q201	8-729-100-66		2SC1623	
Q121	8-729-901-01	TRANSISTOR	DTC144EK						
Q122	8-729-901-01		DTC144EK		Q250	8-729-100-66	TRANSISTOR	2SC1623	
0123	8-729-901-01		DTC144EK		Q251	8-729-100-66	TRANSISTOR	2SC1623	
0124	8-729-901-01	TRANSISTOR	DTC144EK		0252	8-729-100-66	TRANSISTOR	2SC1623	
0125	8-729-901-06	TRANSISTOR	DTA144EK		0253	8-729-100-66	TRANSISTOR	2SC1623	
					0254	8-729-100-66	TRANSISTOR	2801623	
Q126		TRANSISTOR	DTA144EK						
0127		TRANSISTOR	2SA1162		0255		TRANSISTOR	2801623	
0128	8-729-100-66		2SC1623		0256	8-729-901-06		DTA144EK	
0129			2SC1623			8-729-100-66		2SC1623	
Q130	8-729-901-06	RANSISION	DTA144EK		0258	8-729-901-06		DTA144EK 2SC1623	
0121	0 7000010	TRANSISTOR	DTC144EK		0259	0-129-100-00	TRANSISTOR	2301023	
Q131 Q132		I TRANSISTOR	DTC144EK		Q260	8-729-320-17	TRANSISTOR	2SA1122-CD	
Q133		TRANSISTOR	2SC1623		0261	8-729-901-01		DTC144EK	
Q135		TRANSISTOR	2SC2223-F13		Q301		TRANSISTOR	2SC1623	
Q136		TRANSISTOR	2SC1623		0302	8-729-901-01		DTC144EK	
Q100	5 123 100 01				Q303	8-729-202-38		2SC3326N	
Q138	8-729-102-0	7 TRANSISTOR	2SC2223-F13						
0139		TRANSISTOR	DTA144EK	1	0304	8-729-901-01	TRANSISTOR	DTC144EK	
0141		7 TRANSISTOR	2SC2223-F13	1	Q305	8-729-216-22	TRANSISTOR	2SA1162	
0143		7 TRANSISTOR	2SC2223-F13		Q306	8-729-100-66	TRANSISTOR	2SC1623	
Q144		7 TRANSISTOR	2SC2223-F13		Q307	8-729-901-01	I TRANSISTOR	DTC144EK	

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description			Remark
0308	8-729-901-01	TRANSISTOR	DTC144EK		Q540	8-729-100-66		2SC1623		
0309	8-729-202-38	TRANSISTOR	2SC3326N		Q541	8-729-902-99		DTC114TK		
0311	8-729-100-66	TRANSISTOR	2SC1623		0908	8-729-901-01		DTC144EK		
Q312	8-729-100-66	TRANSISTOR	2SC1623					DIVITALK		
Q313	8-729-100-66	TRANSISTOR	2SC1623				< RESISTOR >			
Q314	8-729-100-66	TRANSISTOR	2801623		R101	1-216-049-00	METAL CHIP	1 K	5%	1/10W
Q315	8-729-100-66	TRANSISTOR	2SC1623		R102	1-216-041-00		470	5%	1/10W
0327	8-729-901-01	TRANSISTOR	DTC144EK		R103	1-216-049-00		1 K	5%	1/10W
Q401	8-729-100-66	TRANSISTOR	2SC1623		R104	1-216-073-00		10K	5%	1/10W
0402	8-729-100-66		2SC1623		R105	1-216-041-00		470	5%	1/10W
Q500	8-729-903-30	TRANSISTOR	DTC144TK		R106	1-216-073-00	METAL CHIP	10K	5%	1/10W
Q501	8-729-100-66		2SC1623	ĺ	R107	1-216-041-00		470	5%	1/10W
0502	8-729-102-07		2SC2223-F13		R108	1-216-073-00		10K	5%	1/10W
0503	8-729-100-66		2SC1623		R109	1-216-631-11		150		1/10W
Q505	8-729-100-66		2SC1623		R110	1-216-071-00		8. 2K		1/10W
Q506	8-729-901-06	TRANSISTOR	DTA144EK		R111	1-216-069-00	METAL CUID	6. 8K	54 ⁄	1/10W
Q507	8-729-901-06		DTA144EK		R112	1-216-081-00		22K	5% 5%	•
Q508	8-729-901-01		DTC144EK		R113	1-216-073-00				1/10W
0509	8-729-100-66		2SC1623		R114	1-216-073-00		10K	5%	1/10W
Q510	8-729-100-66		2SC1623		R115	1-216-073-00		10K	5%	1/10W
4010	0 123 100 00	INANOTOTON	2001020		0,11,0	1-210-049-00	METAL CHIP	1 K	5%	1/10W
Q511	8-729-100-66	TRANSISTOR	2SC1623		R116	1-216-699-11	METAL CHIP	100K	0.5%	1/10W
Q512	8-729-901-06	TRANSISTOR	DTA144EK		R117	1-216-113-00		470K		1/10W
Q513	8-729-100-66	TRANSISTOR	2SC1623		R118	1-216-043-00		560	5%	1/10W
0514	8-729-216-22	TRANSISTOR	2SA1162	İ	R119	1-216-049-00		1 K	5%	1/10W
Q515	8-729-100-66	TRANSISTOR	2SC1623		R120	1-216-085-00		33K	5%	1/10W
Q516	8-729-100-66	TRANSISTOR	2SC1623		R121	1-216-049-00	METAL CHIP	1 K	5%	1/10W
0517	8-729-102-07		2SC2223-F13		R122	1-216-091-00		56K	5%	1/10W
Q518	8-729-100-66		2801623		R123	1-216-101-00		150K		1/10W
Q519	8-729-100-66		2SC1623	1	R124	1-216-667-11		4. 7K		1/10W
Q520	8-729-901-01		DTC144EK		R125	1-216-665-11		3. 9K		1/10W
0521	8-729-102-07	TRANSISTOR	2SC2223-F13		R126	1-216-645-11	METAL CHIP	560	0. 5%	1/10W
0522	8-729-901-06	TRANSISTOR	DTA144EK		R127	1-216-069-00		6. 8K		1/10W
Q523	8-729-901-01	TRANSISTOR	DTC144EK		R128	1-216-067-00		5. 6 K		1/10W
0524	8-729-901-01		DTC144EK		R129	1-216-057-00		2. 2K		1/10W
Q525	8-729-100-66	TRANSISTOR	2SC1623		R130	1-216-061-00		3. 3K	5%	1/10W
Q526	8-729-216-22	TRANSISTOR	2SA1162		R131	1-216-061-00	METAL CHIP	3. 3K	5%	1/10W
0527	8-729-100-66		2SC1623		R132	1-216-089-00		47K	5%	1/10W
Q528	8-729-100-66		2SC1623		R133	1-216-653-11				1/10W
0529	8-729-100-66		2SC1623	}	R134	1-216-663-11		3. 3K		
Q530	8-729-100-66		2SC1623		R135	1-216-667-11				1/10W 1/10W
Q531	8-729-100-66	TRANSISTOR	2SC1623	İ	R136	1-216-641-11	METAL CHID	390	0 EW	1 /1 AW
Q532	8-729-100-66		2SC1623		R137	1-216-663-11				1/10W
Q533	8-729-100-66		2SC1623	ļ	R138			3. 3K		1/10W
Q534	8-729-100-66		2SC1623	1	R139	1-216-071-00		8. 2K		1/10W
Q535	8-729-901-01		DTC144EK	1		1-216-079-00		18K	5%	1/10W
			DIVITALE		R140	1-216-643-11	MCIAL CHIP	470	U. 5%	1/10W
Q536	8-729-901-06	TRANSISTOR	DTA144EK	1	R141	1-216-641-11	METAL CHIP	390	0.5%	1/10W
Q537	8-729-901-01	TRANSISTOR	DTC144EK	1	R142	1-216-031-00		180	5%	1/10W
Q538	8-729-102-08	TRANSISTOR	2SC2223-F14	j	R143	1-216-697-11				1/10W
Q539	8-729-901-01	TRANSISTOR	DTC144EK	[R144	1-216-687-11				1/10W
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Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Descri	ption 			Remark
R145	1-216-065-00	METAL CHIP	4. 7K	5%	1/10W	R208	1-216-085-00	METAL	CHIP	33K	5%	1/10W
R146	1-216-063-00		3. 9K		1/10W	R209	1-216-049-00	METAL	CHIP	1 K	5%	1/10W
R147	1-216-049-00		1 K	5%	1/10W	R210	1-216-031-00	METAL	CHIP	180	5%	1/10W
R148	1-216-049-00		1 K	5%	1/10W	R211	1-216-061-00			3.3K	5%	1/10W
R149	1-216-063-00		3. 9K	5%	1/10W	R212	1-216-059-00			2.7K	5%	1/10W
N 143	1-210-000 00	MEINE VIII	0. UK	•/•	,, , , , , , , , , , , , , , , , , , , ,		, 2,,, ,,,					·
R150	1-216-041-00	METAL CHIP	470	5%	1/10W	R213	1-216-039-00	METAL	CHIP	390	5%	1/10W
R151	1-216-083-00		27K	5%	1/10W	R214	1-216-031-00			180	5%	1/10W
	1-216-057-00		2. 2K		1/10W	R215	1-216-039-00			390	5%	1/10W
R152			33K	5%	1/10W	R216	1-216-039-00			390	5%	1/10W
R153	1-216-085-00		56K	5%	1/10W	R217	1-216-041-00			470	5%	1/10W
R154	1-216-091-00	METAL CHIP	JUK	376	17 10#	1 "21"	1 210 041 00	MEINE	VII.11	710	٧,,	17 1011
2455	. 016 041 00	METAL AUID	470	5%	1/10W	R218	1-216-069-00	METAI	CHIP	6. 8K	5%	1/10W
R155	1-216-041-00				•	R219	1-216-045-00			680	5%	1/10W
R156	1-216-049-00		1 K	5%	1/10W						5%	1/10W
R157	1-216-049-00		1 K	5%	1/10W	R220	1-216-047-00			820		-
R158	1-216-057-00		2. 2K		1/10W	R221	1-216-037-00			330	5%	1/10W
R159	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W	R222	1-216-025-00	MEIAL	CHIP	100	5%	1/10W
R160	1-216-049-00	METAL CHIP	1 K	5%	1/10W	R223	1-216-057-00			2. 2K		1/10W
R161	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W	R224	1-216-073-00			10K	5%	1/10W
R162	1-216-073-00	METAL CHIP	10K	5%	1/10W	R225	1-216-065-00	METAL	CHIP	4. 7K	5%	1/10W
R164	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W	R227	1-216-073-00	METAL	CHIP	10K	5%	1/10W
R165	1-216-089-00	METAL CHIP	47K	5%	1/10W	R228	1-216-049-00	METAL	CHIP	1 K	5%	1/10W
R172	1-216-029-00	METAL CHIP	150	5%	1/10W	R229	1-216-073-00	METAL	CHIP	10K	5%	1/10W
R175	1-216-043-00		560	5%	1/10W	R230	1-216-073-00	METAL	CHIP	10K	5%	1/10W
R178	1-216-035-00		270	5%	1/10W	R233	1-216-089-00	METAL	CHIP	47 K	5%	1/10W
R179	1-216-039-00		390	5%	1/10W	R234	1-216-053-00			1. 5K	5%	1/10W
R181	1-216-057-00		2. 2K		1/10W	R235	1-216-073-00			10K	5%	1/10W
N I U I	1 210 001 00	MEINE OILÚ		•/•	,, ,,,,,				7			•
R182	1-216-041-00	METAL CHIP	470	5%	1/10W	R240	1-216-079-00	METAL	CHIP	18K	5%	1/10W
R183		METAL CHIP	2. 2K		1/10W	R241	1-216-041-00			470	5%	1/10W
R184		METAL CHIP	270	5%	1/10W	R243	1-216-049-00			1K	5%	1/10W
R186		METAL CHIP	10K	5%	1/10W	R250	1-216-037-00			330	5%	1/10W
		METAL CHIP	10K	5%	1/10W	R251	1-216-047-00			820	5%	1/10W
R187	1-210-073-00	MEIAL GRIF	101	370	17 1011	1 1231	1-210-047-00	MEINE	VIIII	020	V/4	17 1011
0100	1 010 041 0	METAL CUID	470	5%	1/10W	R252	1-216-043-00	METAL	CHIP	560	5%	1/10W
R188	•	D METAL CHIP			•	R253	1-216-073-00			10K	5%	1/10W
R189		D METAL CHIP	2. 7K		1/10W	1				10K	5%	1/10W
R190		O METAL GLAZE	3 K	5%	1/10W	R254	1-216-073-00					•
R191		O METAL CHIP	4. 7K	5%	1/10W	R255	1-216-073-00			10K	5%	1/10W
R192	1-216-041-0	O METAL CHIP	470	5%	1/10W	R256	1-216-073-0	U MEIAL	CHIP	10K	5%	1/10W
							4 445 474 4		AU 1 B	4.61/	ra.	4 /4 619
R194		O METAL CHIP	6. 8K		1/10W	R257	1-216-073-0			10K	5%	1/10W
R195	1-216-041-0	O METAL CHIP	470	5%	1/10W	R258	1-216-047-0			820	5%	1/10W
R196	1-216-057-0	O METAL CHIP	2. 2K	5%	1/10W	R259	1-216-047-0	O METAL	CHIP	820		1/10W
R197	1-216-073-0	O METAL CHIP	10K	5%	1/10W	R260	1-216-065-0			4. 7K	5%	1/10W
R198	1-216-073-0	O METAL CHIP	10K	5%	1/10W	R261	1-216-025-0	O METAL	CHIP	100	5%	1/10W
									•			
R199	1-216-035-0	O METAL CHIP	270	5%	1/10W	R262	1-216-046-0	O METAL	CHIP	750	5%	1/10W
R200		O METAL CHIP	10K	5%	1/10W	R263	1-216-041-0	O METAL	CHIP	470	5%	1/10W
R201		O METAL CHIP	560	5%	1/8W	R264	1-216-069-0	O METAL	CHIP	6. 8K	5%	1/10W
R202		O METAL CHIP	1 K	5%	1/8W	R266	1-216-049-0			1 K	5%	1/10W
R203		O METAL CHIP	270	5%	1/10W	R267	1-216-049-0			1 K	5%	1/10W
11200						1			*	*		-
R204	1-216-035-0	O METAL CHIP	270	5%	1/10W	R268	1-216-035-0	O METAL	CHIP	270	5%	1/10W
R205		O METAL CHIP	1K	5%	1/10W	R269	1-216-041-0			470	5%	1/10W
R206		O METAL CHIP	10K	5%	1/10W	R270	1-216-057-0			2. 2K		1/10W
R207		O METAL CHIP	10K	5%	1/10W	R271	1-216-073-0			10K	5%	1/10W
NZU1	1-210-010-0	A WEIVE AILL	144	J/1	17 1 411	1 "211			*	1711	₹/ •	.,

Ref. No.	Part No.	Descr	iption			Remark	Ref. No.	Part No.		iption 			Remark
R272	1-216-049-00	METAL	CHIP	1 K	5%	1/10W	R339	1-216-049-00			1 K	5%	1/10W
R273	1-216-073-00	METAL	CHIP	10K	5%	1/10W	R341	1-216-047-00			820	5%	1/10W
R274	1-216-073-00	METAL	CHIP	10K	5%	1/10W	R342	1-216-054-00			1. 6K		1/10W
R275	1-216-069-00	METAL	CHIP	6. 8K	5%	1/10W	R343	1-216-054-00			1. 6K		1/10W
R277	1-216-073-00	METAL	CHIP	10K	5%	1/10W	R344	1-216-049-00			1K	5%	1/10W
						.,		7 210 043 00	MEINE	VIIII	1 1	3/1	1/1011
R278	1-216-089-00	METAL	CHIP	47K	5%	1/10W	R346	1-216-295-00	METAL	CHIP	0	5%	1/10W
R279	1-216-073-00			10K	5%	1/10W	R348	1-216-295-00			0	5%	•
R280	1-216-073-00			10K	5%	1/10W	R365	1-216-295-00			0	5%	1/10W 1/10W
R281	1-216-081-00			22K	5%	1/10W	R367	1-216-222-00			10K	5%	
R282	1-216-081-00			22K	5%	1/10W	R368	1-216-073-00			10K	5%	1/8W
					• • • • • • • • • • • • • • • • • • • •	', '*''	11000	1 210 010 00	MLIAL	UHIT	IUK	376	1/10W
R283	1-216-049-00	METAL	CHIP	1 K	5%	1/10W	R401	1-216-089-00	METAL	CHID	47K	E0/	1/100
R285	1-216-045-00			680	5%	1/10W	R402	1-216-077-00				5%	1/10W
R301	1-216-051-00			1. 2K		1/10W	R403	1-216-073-00			15K	5%	1/10W
R302	1-216-057-00			2. 2K	5%	1/10W	R404	1-216-041-00			10K	5%	1/10W
R303	1-216-057-00			2. 2K		1/10W	R404				470	5%	1/10W
	1 210 001 00	METAL	OHII	2. ZN	3/4	1/ 10#	N4U0	1-216-047-00	METAL	CHIP	820	5%	1/10W
R304	1-216-061-00	MFTAI	CHIP	3. 3K	5%	1/10W	D#06	1 216 062 00	METAL	OULD		F 44	
R305	1-216-055-00			1. 8K	5%	1/10W	R406	1-216-063-00			3. 9K	5%	1/10W
R306	1-216-089-00			47K	5%	1/10W	R407	1-216-050-00	METAL	GLAZE	1. 1K	5%	1/10W
R307	1-216-049-00			1 K	5%	1/10W	R500	1-216-071-00			8. 2K	5%	1/10W
R308	1-216-057-00			2. 2K	5%	1/10W	R501 R502	1-216-049-00			1 K	5%	1/10W
	1 210 001 00	MEINE	Onti	2. ZN	J/8	1/1011	N OUZ	1-216-073-00	METAL	CHIP	10K	5%	1/10W
R309	1-216-043-00	METAL	CHIP	560	5%	1/10W	R503	1_216_222 00	METAL	01 475	104	r.v	4 (0111
R310	1-216-065-00			4. 7K	5%	1/10W	R504	1-216-222-00 1-216-047-00			10K	5%	1/8W
R311	1-216-049-00			1K	5%	1/10W	R505				820	5%	1/10W
R312	1-216-049-00			1 K	5%	1/10W	R506	1-216-049-00 1-216-065-00			1K	5%	1/10W
R313	1-216-053-00			1. 5K		1/10W	R507	1-216-073-00			4. 7K	5%	1/10W
			U	•	٠,٠	'/'''	W201	1-210-013-00	METAL	UNIT	10K	5%	1/10W
R314	1-216-061-00	METAL	CHIP	3. 3K	5%	1/10W	R508	1-216-077-00	METAL	CHID	15K	5%	1/10W
R315	1-216-073-00			10K	5%	1/10W	R510	1-216-049-00			1 K	5%	1/10W
R317	1-216-063-00	METAL	CHIP	3. 9K	5%	1/10W	R511	1-216-053-00			1. 5K	5%	1/10W
R318	1-216-699-11	METAL	CHIP	100K	0. 5%	1/10W	R512	1-216-069-00			6. 8K	5%	1/10W
R319	1-216-033-00	METAL	CHIP	220	5%	1/10W	R513	1-216-047-00			820	5%	1/10W
								, 210 04, 00	me inc	VIIII	020	376	1/10#
R320	1-216-037-00			330	5%	1/10W	R514	1-216-057-00	METAL	CHIP	2. 2K	5%	1/10W
R321	1-216-069-00	METAL	CHIP	6. 8K	5%	1/10W	R515	1-216-216-00			5. 6K	5%	1/8W
R322	1-216-067-00	METAL	CHIP	5. 6K	5%	1/10W	R516	1-216-198-00			1 K	5%	1/8W
R323	1-216-061-00	METAL	CHIP	3. 3K	5%	1/10W	R517	1-216-222-00	METAL	GI A7F	10K	5%	1/8W
R324	1-216-069-00	METAL	CHIP	6. 8K	5%	1/10W	R518	1-216-081-00			22K	5%	1/10W
						1				V	LLN	076	17 1011
R325	1-216-069-00	METAL	CHIP	6. 8K	5%	1/10W	R519	1-216-083-00	METAL	CHIP	27K	5%	1/10W
R326	1-216-061-00	METAL	CHIP	3. 3K	5%	1/10W	R520	1-216-065-00			4. 7K	5%	1/10W
R327	1-216-041-00	METAL	CHIP	470	5%	1/10W	R521	1-216-049-00			1K	5%	1/10W
R328	1-216-073-00			10K	5%	1/10W	R522	1-216-043-00			560	5%	1/10W
R329	1-216-073-00	METAL	CHIP	10K	5%	1/10W	R523	1-216-025-00			100	5%	1/10W
							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 2,0 020 00		VII.71	100	J/I	17 1011
R330	1-216-051-00	METAL	CHIP	1. 2K	5%	1/10W	R524	1-216-041-00	METAL	CHIP	470	5%	1/10W
R331	1-216-073-00	METAL	CHIP	10K	5%	1/10W	R525	1-216-073-00			10K	5%	1/10W
R332	1-216-073-00	METAL	CHIP	10K	5%	1/10W	R526	1-216-041-00			470	5%	1/10W
R333	1-216-043-00			560	5%	1/10W	R527	1-216-073-00			10K	5%	1/10W
R334	1-216-043-00	METAL	CHIP	560	5%	1/10W	R528	1-216-037-00			330	5%	1/10W
											000	074	17 1011
R335	1-216-063-00	METAL	CHIP	3. 9K	5%	1/10W	R529	1-216-295-00	METAL	CHIP	0	5%	1/10W
R336	1-216-043-00			560	5%	1/10W	R530	1-216-049-00			1 K	5%	1/10W
R337	1-216-049-00			1 K	5%	1/10W	R531	1-216-033-00			220	5%	1/10W
R338	1-216-033-00	METAL	CHIP	220	5%	1/10W	R532	1-216-079-00			18K	5%	1/10W
						•							., ,

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R533	1-216-043-00	METAL CHIP	560	5%	1/10W	R584	1-216-083-00	METAL CHIP	27K	5%	1/10W
R534	1-216-043-00		560	5%	1/10W	R585	1-216-069-00	METAL CHIP	6. 8K	5%	1/10W
R535	1-216-049-00		1 K	5%	1/10W	R588	1-216-075-00	METAL CHIP	12K	5%	1/10W
R538	1-216-073-00		10K	5%	1/10W	R589	1-216-073-00	METAL CHIP	10K	5%	1/10W
R539	1-216-073-00		10K	5%	1/10W	R590	1-216-033-00	METAL CHIP	220	5%	1/10W
11000	1 210 010 00	merite on			•]					
R540	1-216-085-00	METAL CHIP	33K	5%	1/10W	R591	1-216-021-00	METAL CHIP	68	5%	1/10W
R541	1-216-077-00		15K	5%	1/10W	R592	1-216-043-00	METAL CHIP	560	5%	1/10W
R542	1-216-043-00		560	5%	1/10W	R593	1-216-045-00	METAL CHIP	680	5%	1/10W
R543	1-216-039-00		390	5%	1/10W	R594	1-216-071-00	METAL CHIP	8. 2K	5%	1/10W
R544	1-216-041-00		470	5%	1/10W	R595	1-216-049-00	METAL CHIP	1 K	5%	1/10W
R545	1-216-049-00	METAL CHIP	1K	5%	1/10W	R596	1-216-043-00	METAL CHIP	560	5%	1/10W
R546	1-216-049-00		1 K	5%	1/10W	R597	1-216-079-00		18K	5%	1/10W
R547	1-216-073-00	METAL CHIP	10K	5%	1/10W	R598	1-216-079-00		18K	5%	1/10W
R548	1-216-073-00		10K	5%	1/10W	R599	1-216-049-00		1 K	5%	1/10W
R549	1-216-043-00	METAL CHIP	560	5%	1/10W	R600	1-216-039-00	METAL CHIP	390	5%	1/10W
									4 50	F44	4 /4 0111
R550	1-216-049-00		1 K	5%	1/10W	R601	1-216-053-00		1. 5K		1/10\\
R551	1-216-049-00		1K	5%	1/10W	R604	1-216-073-00		10K	5%	1/10W
R552	1-216-041-00		470	5%	1/10W	R605	1-216-027-00		120	5%	1/10W
R553	1-216-081-00		22K	5%	1/10W	R606	1-216-043-00		560	5%	1/10W
R554	1-216-081-00	METAL CHIP	22K	5%	1/10W	R610	1-216-069-00	METAL CHIP	6. 8K	5%	1/10W
DEEE	1-216-037-00	METAL CHID	330	5%	1/10W	R611	1-216-081-00	METAL CHIP	22K	5%	1/10W
R555	1-216-037-00		470	5%	1/10W	R612	1-216-081-00		22K	5%	1/10W
R556 R557	1-216-041-00		470	5%	1/10W	R613	1-216-085-00		33K	5%	1/10W
R558	1-216-037-00		330	5%	1/10W	R614	1-216-081-00		22K	5%	1/10W
R559	1-216-043-00		560	5%	1/10W	R615	1-216-085-00		33K	5%	1/10W
11000	1-210 040 00	MEINE OILL	****	•	.,	1			•••		.,
R560	1-216-055-00	METAL CHIP	1. 8K	5%	1/10W	R616	1-216-192-00	METAL CHIP	560	5%	1/8W
R561	1-216-031-00		180	5%	1/10W	R617	1-216-295-00		0 .	5%	1/10W
R562	1-216-073-00		10K	5%	1/10W	R618	1-216-192-00	METAL CHIP	560	5%	1/8W
R563	1-216-073-00		10K	5%	1/10W	R634	1-216-214-00	METAL GLAZE	4. 7K	5%	1/8W
R564	1-216-295-00		0	5%	1/10W	R635	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W
R565	1-216-057-00	METAL CHIP	2. 2K	5%	1/10W	R636	1-216-043-00	METAL CHIP	560	5%	1/10W
R566	1-216-049-00	METAL CHIP	1 K	5%	1/10W	R637	1-216-043-00	METAL CHIP	560	5%	1/10W
R567	1-216-073-00	METAL CHIP	10K	5%	1/10W	R638	1-216-041-00	METAL CHIP	470	5%	1/10W
R568	1-216-033-00	METAL CHIP	220	5%	1/10W	R639	1-216-035-00	METAL CHIP	270	5%	1/10W
R569	1-216-029-00	METAL CHIP	150	5%	1/10W	R640	1-216-035-00	METAL CHIP	270	5%	1/10W
R570		O METAL CHIP	15K	5%	1/10W	R651		METAL CHIP	470	5%	1/10W
R571		O METAL CHIP	4. 7K		1/10W	R701	1-216-033-00		220	5%	1/10W
R572		METAL CHIP	470	5%	1/10W	R702	1-216-033-00		220	5%	1/10W
R573		O METAL CHIP	6. 8K		1/10W	R703 R705	1-216-295-00	METAL CHIP	0	5% 5%	1/10W 1/10W
R574	1-216-069-0	O METAL CHIP	6. 8K	5%	1/10W	1 4103	1-210-295-00	METAL OHIP	U	376	17 1011
8676	1-216-051-0	O METAL CHIP	1. 2K	5%	1/10W	R801	1-249-435-1	CARRON	33K	5%	1/4W
R575 R576		O METAL CHIP	3. 3K		1/10W	R802	1-249-434-1		27K	5%	1/4W
R577		O METAL CHIP	10K	5%	1/10W	R803	1-249-416-1		820	5%	1/4W
R578		O METAL CHIP	10K	5%	1/10W	R804		METAL CHIP	1 K	5%	1/10W
R579		O METAL CHIP	330	5%	1/10W	R807		METAL GLAZE	43	5%	1/8W
11010			***		-•						• ,
R580	1-216-047-0	O METAL CHIP	820	5%	1/10W	R919	1-216-027-00	METAL CHIP	120	5%	1/10W
R581		O METAL CHIP	10K	5%	1/10W	R920		METAL CHIP	1 K	5%	1/10W
R582		O METAL CHIP	10K	5%	1/10W	R921		METAL CHIP	150	5%	1/10W
R583		O METAL CHIP	1K	5%	1/10W						
						•					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >			_		7-4
RV101	1-228-996-00	RES, ADJ. METAL 47K					
RV102	1-228-993-00	RES. ADJ. METAL 4.7K			1-417-139-11	MATCHING TRANSFORMER, ANTE	NNA
RV103	1-228-993-00	RES, ADJ, METAL 4.7K				CORD. CONNECTION CONNECTOR	
RV104	1-228-995-00	RES, ADJ. METAL 22K				COAXIAL CABLE WITH F-TYPE)	(10 Olim
		RES, ADJ, METAL 4.7K			1-575-334-11	CORD. CONNECTION (CABLE. A	W
			j		1_575_335_31	CORD, CONNECTION (CONNECTION	NO O VIDEO
RV106	1-228-995-00	RES. ADJ. METAL 22K			1-010-000-21	CABLE)	NO 3 VIDEO
		RES. ADJ. METAL 47K			1_600_025_11	CORD. CONNECTION (CABLE. C	ANTRAL I
		RES, ADJ, METAL 1K	ŀ		1-030-333-11	(LANC))	JNIKUL L
		RES, ADJ, METAL 2.2K	į			(LANC))	
		RES. ADJ. METAL 1K	ŀ		1_602_020_11	DEMOTE COMMANDED (BUT MAGA)	
			İ			REMOTE COMMANDER (RMT-V120)	l
RV114	1-228-998-00	RES, ADJ, METAL 1K		*		SHEET, PROTECTION	
		RES. ADJ. METAL 1K		*		INDIVIDUAL CARTON	
		RES. ADJ. METAL 2.2K				MANUAL. INSTRUCTION (ENGLIS	
		RES. ADJ. METAL 10K			3-753-820-31	MANUAL, INSTRUCTION (FRENCH	H) (Canadian)
KVOUZ	1-228-993-00	RES. ADJ. METAL 4.7K		*	3-795-581-21	SAFEGUARD (SONY), IMPORTAN	r (US)
		. PILTER .		*		CUSHION (UPPER)	
		< FILTER >		*	3-944-145-01	CUSHION (LOWER)	
T301	1-409-489-11	FILTER. BAND PASS		******	******	**********	!*** *****
		< PIN >			н	ARDWARE LIST	
₩001	1-566-095-11	PIN, BOARD TO BOARD 6P					
			ŀ	#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2	IT_2
		< CRYSTAL >	1			STOP RING 2. 3. TYPE -E	11-0
					7-621-772-30		
X301	1-577-080-11	VIBRATOR, CRYSTAL 3.58MHz				SCREW, PRECISION +P 1.7X3	
		***********	*****	#5		SCREW +PS 2X10	
			*******	#7	1-026-233-40	SCREW TES ZAID	
		MISCELLANEOUS		#6	7-627-555-88	SCREW (M1. 4X1. 8)	
`		*******				SCREW +BVTT 3X6 (S)	
			į			SCREW (M2X3), SPECIAL HEAD	
15	1-466-292-51	SWITCH BLOCK, CONTROL	l			SCREW, PRECISION +P 2X6 TYP)F3
33	1-238-738-11	RES. VAR. CARBON 10K (SHUTTLE)			1 021 000 00	CONEM, THEOTOTOM TI ZAO TIT	LU
	1-690-735-11						
		CONNECTOR, FPC (TRANSLATION) 13P					
		FP-460 FLEXBLE BOARD					
64	1-640-970-11	FP-419 FLEXBLE BOARD					
68	1-569-346-11	CONNECTOR. FPC (TRANSLATION) 10P					
⚠. 108	1-466-645-11	MODULATOR, RF (RFU-1040)					
111	1-558-924-41	CABLE, PIN	1				
₫ F1	1-532-743-11	FUSE, GLASS TUBE					
M901	A-7048-547-A	DRUM BLOCK ASSY (DGU-87A-R)	ľ				
M902	8-835-331-01	MOTOR, DC U-22A (CAPSTAN)					
M903	A-7040-160-A	MOTOR ASSY. THREADING (LOADING)) 1				•
		FL MOTOR ASSY (FRONT LOADING)					
		*********	******				

Note:
The components identified by mark \(\underbrace{\hat{\Lambda}}\) or dotted line with mark \(\underbrace{\hat{\Lambda}}\) are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque \(\frac{\Lambda}{\Lambda}\) sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 8 SERVICE MODE

☆This unit uses the EVR (Electronic Variable Resistor) for performing adjustments and tests. These functions are implemented by the SENSER LANC system.

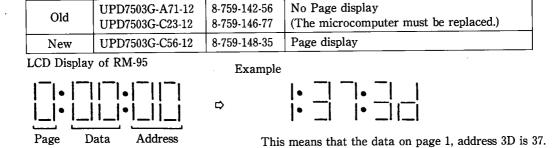
8-1. SENSER LANC

SENSER LANC is the LANC format designed to perform EVR (electronic variable resistor) adjustments and various tests for this 8mm VTR by using the LANC (Control L). The SENSER LANC is synonymous with the old SERVICE LANC. But there have been enhancements and the SENSER LANC is now used as a unified word.

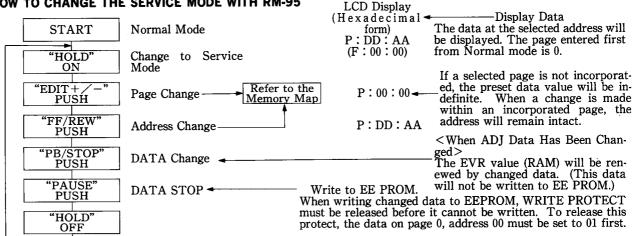
8-2. HOW TO USE THE RM-95 JIG (ADJUSTMENT REMOTE CONTROL)

The RM-95 jig is used to operate the SENSER LANC. This jig will create the SENSER LANC Mode. Because of this, the HOLD switch has been modified for service purpose.

Note that the old models of the RM-95 have no page display function and it is needed to replace their microcomputers within these old models.

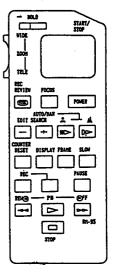




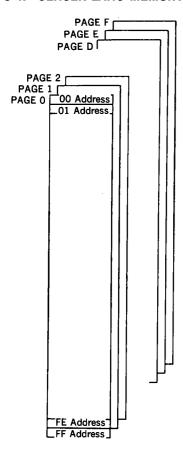


RM-95 (J-6082-053-B)

Command	Action	RM-95 Control Button Pushed
Page Up	Page+1	Edit Search+
Page Down	Page-1	Edit Search-
Direct Page Set	Sets to specified page.	Event Clear
Address Up	Address+1	Fast Forward
Address Down	Address-1	Rewind
Data Up	Data+1	Play Back
Data Down	Data-1	Stop
Store	Writes data to EEPROM. RAM	Pause



8-4. SENSER LANC MEMORY MAP



This unit has pages 0 to F allocated as listed below.

PAGE	Page Allocation
0	Service
1	
2	
3	
4	
5	
6	
7	
8	
9	
A	
В	
С	
D	VTR EE-PROM
E	
F	

Note: The adjustment address 00 of the first page for the RAM is a control code for total control. This address is used to permit write to EE-PROM.

The initial data for this control code is "00" which inhibits write to EE-PROM. In order to write the VTR EE-PROM, the control codes for their respective adjustment pages must be set to "01" as shown by the arrow.

Sixteen different pages from 0 to F are available. Page allocations are as listed above. Only pages D and F are allocated to those memories that will not be cleared even if the power is turned off as the EVR (electronic variable resistor).

8-5. D PAGE WRITE PROTECT

D Page Write Protect is released and established as follows:

Page 0 Address 00	
-------------------	--

Data	Function
00	Normal (Write Protected)
01	Write Protect Release

8-6. TEST MODE SETTING

Variety of test modes are established and changed as listed below. Before setting data, Write Protect should be released by setting as follows:

(page: 0, address: 00, data: 01)

Page 0 or D	Address 01

Data	Function
00	Normal
01	Test Mode 1 Various Emergencies, Inhibit and Release Drum, Capstan, Loading Motor, Reel, Tape Top and End, DEW SP/LP Automatic Di- scrimination Inhibit, Manual Changeover (EDIT SW ON:LP, OFF:SP)
02	Test Mode 2 Not used
03	Test Mode 3 Track Shift Execution of Track Shift Playback Back Lock Discrimination Inhibit during PB SP/LP Automatic Discrimination Inhibit, Manual Changeover (EDIT SW ON:LP, OF:SP)

*The data at this address will be stored to a nonvolatile memory by pressing the PAUSE button on the adjustment remote control.

It should be remembered that once the data has been stored, even if the power is turned off, the test mode will not be released.

* After completing necessary adjustments/repairs, be sure to return the data at this address to 00.

8-7. EMERGENCY CODES

These codes can be used to check the condition of failure (abnormality) that occurred.

Page 0 or D	Address 06

First Emergency Code

.... The code of the first failure that occurred.

Page 0 or D	Address 07

Last Emergency Code

- The code of the last failure that occurred (This data will be renewed each time a failure occurs.
- * After completing necessary adjustments/repairs, be sure to rewrite the data at address 06 and the data at address 07 to 00.
- *When writing data, after setting the data, be sure to press the PAUSE button on the adjustment remote control.
- *Address 06 and address 07 on page 0 have the same functions as address 06 and address 07 on page D respectively.

Code	Condition of Failure
00	No Failure
01	Loading Motor Failure
02	Reel Failure during Unloading
03	Reel Failure during operation other than unloading
04	Capstan Failure
05	FG Failure at Start of Drum
06	PG Failure at Start of Drum
07	FG Failure when Drum is Stationary.
08	PG Failure when Drum is Stationary.
09	Phase Failure when Drum is Stationary.

8-8. EMERGENCY MODE

This mode allows you to check the mode of operation in which the VTR was placed when failure occurred.

Page 0 or D	Address 08

First Emergency Code

.... The code of the first failure that occurred.

Page 0 or D	Address 09

Last Emergency Code

- The code of the last failure that occurred (This data will be renewed each time a failure occurs.)
- * After completing necessary adjustments/repairs, be sure to rewrite the data at address 08 and the data at address 09 to 00.
- * When writing data, after setting the data, be sure to press the PAUSE button on the adjustment remote control.
- *Address 08 and address 09 on page 0 have the same functions as address 08 and address 09 on page D respectively.

Code	Condition of Failure
00	INITIAL
10	EJECTED
11	EJECTED DEW
13	EJECT [/STOP] UNLOADED
1E	EJECTED POWER OFF
20	STOP
22	CASSETTE LOAD
23	STOP UNLOADED
24	STOP DEW
25	STOP EMERGENCY
26	STOP TAPE END
27	STOP TAPE TOP
29	STOP ZERO
2E	STOP POWER OFF
30	FF
33	FF ZERO PB
34	FF ZERO STOP
38	REW
3A	REW PB
3B	REW ZERO PB
3C	REW ZERO STOP
3D	REW HIGH SPEED
40	REC
41	REC PAUSE
42	TIMER REC
43	TIMER REC PAUSE
45	VA INSERT

Code	Condition of Failure
45	VA INSERT PAUSE
46	V INSERT
47	V INSERT PAUSE
48	A INSERT
49	A INSERT PAUSE
50	EDITSEARCH SLOW 1/5
52	EDITSEARCH CUE
53	EDITSEARCH REVIEW
54	EDITSEARCH HI CUE
55	EDITSEARCH HI REVIEW
5 A	EDITSEARCH FWD
5B	EDITSEARCH RVS
5C	EDITSEARCH STILL
60	PB
62	+1
63	-1
64	CUE
65	REVIEW
66	+2
67	-1
68	LOCKED CUE
69	LOCKED REVIEW
6A	FR CUE
6B	FR REVIEW
6C	Hi CUE
6D	Hi REVIEW
70	+STILL
71	-STILL
72	+SLOW 1/5
73	—SLOW 1/5
74	+SLOW 1/10
75	—SLOW 1/10
76	+FRAME
77	—FRAME
FF	NULL

8-9. O PAGE MEMORY MAP

Adjustment Address	Contents	Remarks
00	Control Code	
01	Test Mode	
02		
03	Switching Position Adjustment (LOW)	
04	Switching Position Adjustment (HIGH)	·
05	Various Flag Areas	
06	Emergency Code (FIRST)	FF (Initial Value)
07	Emergency Code (LAST)	FF (Initial Value)
08	Emergency Code (FIRST)	FF (Initial Value)
09	Emergency Code (LAST)	FF (Initial Value)
0A		
0B		
0C		
0D		
0E		
0F		
10		
11		
12		
13		
14		
15		
16		
17	·	
18		
19		
1A	·	
1B		
1C		
1D		
1 E		
1F		

8-10. D PAGE MEMORY MAP

Address	Function	Initial Value	Memo Colur
00			
01			
02			
03	Switching Position Adjustment (LOW)	Adjustment	
04	Switching Position Adjustment (HIGH)	Adjustment	
05	Various Flag Areas		
06	Emergency Code (FIRST)	FF	
07	Emergency Code (LAST)	FF	
08	Emergency Code (FIRST)	FF	
09	Emergency Code (LAST)	FF	·
0 A	DNR OFF	40	
0B	DNR Standard	50	
0C	DNR Maximum	A0	
0D			
0E			
0F			
10	Serial Data Storage Area LOW MP LP	0C	
11	Serial Data Storage Area LOW MP SP	04	
12	Serial Data Storage Area LOW MP LP	0C	
13	Serial Data Storage Area LOW MP SP	04	
14	Serial Data Storage Area HIGH ME LP	08	
15	Serial Data Storage Area HIGH ME SP	00	
16	Serial Data Storage Area HIGH ME LP	08	
17	Serial Data Storage Area HIGH ME SP	00	····
18	SLOW TRACON DATA (LP)	Adjustment	
19	SLOW TRACON DATA (SP)	Adjustment	
1A	-SLOW TRACON DATA (LP)	Adjustment	
1B	-SLOW TRACON DATA (SP)	Adjustment	<u> </u>
1C	×2 TRACON DATA (LP)	Not used	
1D	×2 TRACON DATA (SP)	Not used	
1E	STILL ADJUST DATA	Not used	
1F	Sharpness Data	A6	
20	Air Stop Address	FF	
21	Air Stop Address	FF	
22	Air Stop Address	FF	
23	Air Stop Address	FF	-
24	Air Stop Address	FF	
25	Air Stop Address	FF	
26	Air Stop Address	FF	
27	Air Stop Address	FF	•
28	Air Stop Address	FF	
29	Air Stop Address	FF	
2A	CATV Stop Address	FF	
2B	CATV Stop Address CATV Stop Address	FF	
41)	OTITY STOP Address	TT	

Address	Function	Initial Value	Memo Columi
2D	CATV Stop Address	FF	
2E	CATV Stop Address	FF	
2F	CATV Stop Address	FF	
30	CATV Stop Address	FF	
31	CATV Stop Address	FF	
32	CATV Stop Address	FF	
33	CATV Stop Address	FF	
34	CATV Stop Address	FF	
35	CATV Stop Address	FF	
36	CATV Stop Address	FF	
37	CATV Stop Address	FF	
38	CATV Stop Address	FF	
39	CATV Stop Address	F F	
3A			
3B			
3C			
3D			
3E			
3F			
40	Air AFT Address	FF	
41	Air AFT Address	FF	
42	Air AFT Address	FF	
43	Air AFT Address	FF	
44	Air AFT Address	FF	
45	Air AFT Address	FF	
46	Air AFT Address	FF	
47	Air AFT Address	FF	
48	Air AFT Address	FF	
49	Air AFT Address	FF	
49 4A	CATV AFT Address	FF	
4A 4B	CATV AFT Address	FF	-
4B 4C	CATV AFT Address	FF	
	CATV AFT Address	FF	
4D	CATV AFT Address	FF	
4E	CATV AFT Address	FF	-
4F	CATV AFT Address	FF	
50		FF	
51	CATV AFT Address	FF	
52	CATV AFT Address	FF	
53	CATV AFT Address	FF	-
54	CATV AFT Address		+
55	CATV AFT Address	FF	
56	CATV AFT Address	FF	
57	CATV AFT Address	FF	
58	CATV AFT Address	FF	
59	CATV AFT Address	FF	
5A			
5B			
5C	_		

Address	Function	Initial Value	Memo Column
5D			
5E			
5F			
60	Fine Tuning Data (16 Pieces)	FF	
61	Fine Tuning Data (16 Pieces)	FF	
62	Fine Tuning Data (16 Pieces)	FF	
63	Fine Tuning Data (16 Pieces)	FF	
64	Fine Tuning Data (16 Pieces)	FF	
65	Fine Tuning Data (16 Pieces)	FF	
66	Fine Tuning Data (16 Pieces)	FF	
67	Fine Tuning Data (16 Pieces)	FF	
68	Fine Tuning Data (16 Pieces)	FF	
69	Fine Tuning Data (16 Pieces)	FF	
6A	Fine Tuning Data (16 Pieces)	FF	
6B	Fine Tuning Data (16 Pieces)	FF	
6C	Fine Tuning Data (16 Pieces)	FF	
6D	Fine Tuning Data (16 Pieces)	FF	
6E	Fine Tuning Data (16 Pieces)	FF	
6F	Fine Tuning Data (16 Pieces)	FF	
70	Fine Tuning Data (16 Pieces)	FF	
71	Fine Tuning Data (16 Pieces)	FF	
72	Fine Tuning Data (16 Pieces)	FF	
73	Fine Tuning Data (16 Pieces)	FF	
74	Fine Tuning Data (16 Pieces)	FF	
75	Fine Tuning Data (16 Pieces)	FF	
76	Fine Tuning Data (16 Pieces)	FF	
77	Fine Tuning Data (16 Pieces)	FF	
78	Fine Tuning Data (16 Pieces)	FF	
79	Fine Tuning Data (16 Pieces)	FF	
7A	Fine Tuning Data (16 Pieces)	FF	
7B	Fine Tuning Data (16 Pieces)	FF	
7C	Fine Tuning Data (16 Pieces)	FF	
7D	Fine Tuning Data (16 Pieces)	FF	
7E	Fine Tuning Data (16 Pieces)	. FF	
7 F	Fine Tuning Data (16 Pieces)	FF	

SECTION 9 MECHANICAL ADJUSTMENTS

For Mechanical Adjustments

For the procedures how to adjust and check the mechanism, as well as how to replace mechanical parts, refer to the separate 8mm Video Mechanical Adjustment Manual III (9-972-732-01).

However, for the procedures how to set the Track Shift mode, refer to the following text.

9-1. TAPE PASS ADJUSTMENT

(TRACK SHIFT)

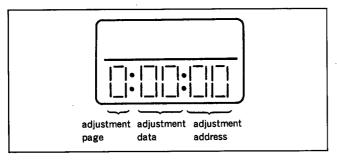
The 8mm Video Tape Recorder system uses the AFT (Automatic Track Finding) function in which four different pilot signals are used for controlling the tape speed instantaneously to provide high precision tracking. This eliminates the Tracking Adjustment control, thus allowing accurate tracing.

In spite of its advantageous feature, the AFT system may have a difficulty in adjusting the tape pass system. The ATF will automatically corrects tracing even if the head has only a little tracing distortion. This may make it impossible to perform a complete adjustment.

Therefore, when performing a fine adjustment for tracking, the Track Shift mode should be entered before starting this adjustment. This mode will force to operate the ATF to shift the amount of tracking by a given quantity (approximately 1/4), so that tracking can be easily fine adjusted. Furthermore, no track shift jig is needed.

9-1-1. Setting the Track Shift Mode

- 1) Short between pin ① and pin ② of connector CN503 on the IN-42 board.
- Place the adjustment remote control RM-95 (J-6082-053-B) in the HOLD ON position.
- 3) Operate the EDIT+/— button to select adjustment page \mathcal{G} .
- 4) Operate the FF/REW button to select adjustment address $\overline{\mathcal{Q}}$ /.
- 5) Operate the PB/STOP button to set to adjustment data \vec{Q} $\vec{\beta}$. (This will go to the Test Mode 3 (Pass Adjustment).)
- **Note 1 :** For details of the Test Mode, refer to "SECTION 8. SERVICE MODE."
- **Note 2:** If the LP mode is recognized by the system wrongly, operate the Recording Time SP/LP button to enter the SP mode.
- Note 3: After adjustment, operate the PB/STOP button to reset to adjustment data \(\begin{align*} \begin{align*} \cdot \begin{align*} \cdot \cd



9-1-2. Preparation before Adjustment

- 1) Clean the surfaces over which tape moves past (of the tape guides, drum, capstan shaft and pinch rollers).
- 2) Oscilloscope Connection and Waveform Output: 1 ch: Drum head's RF signal output, RP-116 board CN004 pin ③ (PB RF OUT) External trigger input: RP-116 board CN004 pin ② (RF SWP) GND: RP-116 board CN004 pin ① (GND)
- 3) Play back alignment tape for tracking (WR5-1NP).
- 4) Check that RF waveform observed on the oscilloscope is flat on both entrance and exit sides. If not flat, perform necessary adjustment according to the separate 8 mm Video Mechanical Adjustment III.

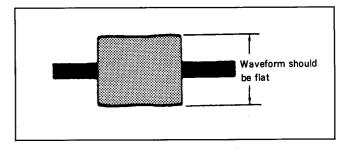


Fig. 9-2.

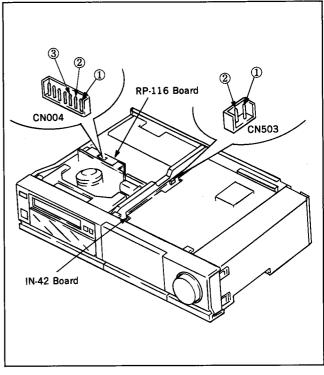


Fig. 9-3.

SECTION 10 ELECTRICAL ADJUSTMENTS

See the adjusting part location diagram from on page 282 for the adjustment.

For details of the SENSER LANC , refer to "SECTION 8. SERVICE MODE".

10-1. PREPARATION BEFORE ADJUSTMENT 10-1-1. Equipment Required

The measuring instruments used for this alignment include:

- 1) Monitor TV
- Oscilloscope, dual-trace, bandwidth of 30MHz or more, with delay mode (A probe 10:1 should be used unless otherwise specified.)
- 3) Frequency counter
- 4) Pattern generator (with Video Output terminal; refer to Section 10-1-2. Equipment Connection.)
- 5) Digital voltmeter
- 6) Audio generator
- 7) Audio level meter
- 8) Audio distortion meter
- 9) Audio attenuator
- 10) Vector scope
- 11) Alignment tapes
 - For tracking adjustment (WR5-1NP)

Part No.: 8-967-995-02

• For video frequency adjustment (WR5-7NE)

Part No.: 8-967-995-13

• For L mode operation check

For SP (WR5-5NSP)

Part No.: 8-967-995-42

or (WR5-4NSP)

Part No.: 8-967-995-41

For LP (WR5-4NL)

Part No.: 8-967-995-51

• For E mode operation check (ME tape)

For SP (WR5-8NSE)

Part No.: 8-967-995-43

For LP (WR5-8NLE)

Part No.: 8-967-995-52

• For AFM stereo operation check (WR5-9NS)

Part No.: 8-967-995-23

12) Adjustment remote control (J-6082-053-B)

10-1-2. Equipment Connection

According to the specification of the input terminal (S VIDEO or VIDEO), connect required measuring instruments as shown in Fig. 10-1. and perform adjustment. The input terminal is specified in the parentheses () in the signal column. Unless otherwise specified, either terminal may be used. Note that the S VIDEO input terminal takes precedence. When performing adjustment with the VIDEO input terminal, pull out the connector from the S VIDEO input terminal.

- Note 1: When S VIDEO input is specified for a specific adjustment, if the adjustment is performed with VIDEO input, the product specifications for this unit may not be satisfied. The specified input must be always used.
- Note 2: If an adjustment is performed by using a VTR with S Video output terminal as a signal source, the performance of this unit will be affected by that VTR. A pattern generator with Y/C separation output terminal should be used wherever possible.

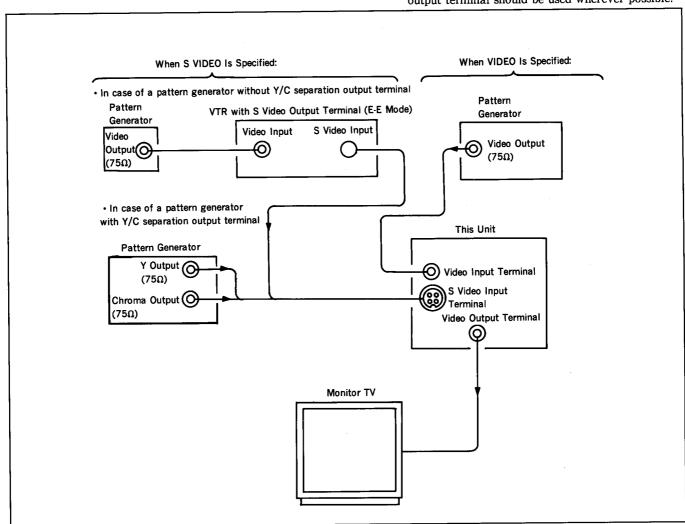


Fig. 10-1.

10-1-3. Input Signal Check

Video signal produced by a pattern generator is used as an adjustment signal to perform electrical alignment for this unit. This video signal must satisfy the specification.

1) S VIDEO Input

Connect an oscilloscope to the Y Signal terminal of the S Video Input terminal. Check that the synchronizing signal of the Y signal is approximately at 0.3Vp-p and that its video portion has an amplitude of approximately 0.7Vp-p. (When a VTR with S video output terminal is used, in addition to these checks, make sure that there are no residual chroma and burst signals.) Then, connect the scope to the Chroma signal terminal of the S Video Input terminal and check that the chroma signal has a burst signal amplitude of 0.3Vp-p and the burst signal waveform is flat. And check that the amplitude ratio of burst signal to chroma signal is 0.30: 0.66. The Y and chroma signals used for electrical alignment are shown in Fig. 10-2.

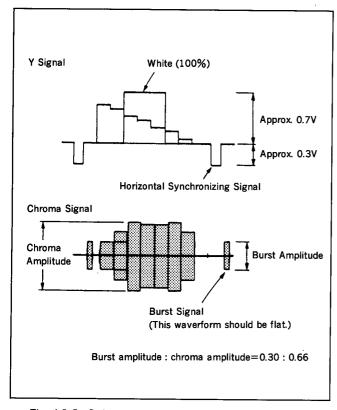


Fig. 10-2. Color Bar Signals of Pattern Generator

2) VIDEO Input

Connect an oscilloscope to the Video Input terminal. Check that the synchronizing signal of the Y signal has an amplitude of approximately 0.7V and that the burst signal has an amplitude of approximately 0.3V and its waveform is flat. And check that the level ratio of burst signal to "red" signal is 0.30: 0.66.

The video signal (color bar) used for electrical aligning this unit is shown in Fig. 10-3.

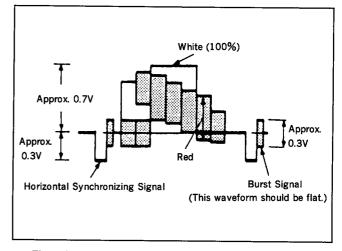


Fig. 10-3. Color Bar Signals of Pattern Generator

10-1-4. Alignment Tapes

The following alignment tapes are available.

The tape specified in the signal column for the adjustment to be performed should be used. Note that if no tape code is specificed for the adjustments in which alignment tapes for operation check are used, any tape for operation check may be used.

be performed shoul	a be use	٨.		Ter opera	tion eneck may be used:	
Alignment	Record	Tape	Tape	Contents of		Applications
Tape	Mode	Type	Speed	Video Area	PCM Area	
Tracking WR5-1NP	L	MP	SP	CH2: 1MHz tape pass a Switching position (CH1:9MHz)	adjustment signal adjustment marker	Tape pass adjustment Switching position adjustment
Video frequency characteristic WR5-7NE	Е	ME	SP	RF sweep 0~15MHz Marker 2, 4.5, 7, 8.5, 10MHz		Frequency characteristic
Operation check WR5-4NSP or WR5-5NSP	L	MP	SP	Video signal Color bar 4 min. Monoscope 4 min. Audio signal (AFM) 400Hz 60% modulated	Audio signal (PCM) Monoscope portion 20Hz 20sec. This cycle 400Hz20sec. Is repeated 14kHz20sec. 4 times Color bar portion 1kHz 4min.	
WR5-8NSE	E	ME	SP	, , , , , , , , , , , , , , , , , , , ,	Operation check	
WR5-4NL	L	MP	LP	Olor bar 4 min.		
WR5-8NLE	Е	ME	LP	Monoscope 4 min. ◆ Audio signal (AFM) 400Hz 60% modulated	• Audio signal (PCM) 400Hz	
AFM stereo operation check WR5-9NS	L	MP	SP	● Video signal Color bar 4 min. Monoscope 4 min. ● Audio signal (AFM) Stereo portion (color bar) Lch: 400Hz Rch: 1kHz (L+R 1.5MHz±60kHz DEV) (L-R 1.5MHz±30kHz DEV) Bilingual portion (monoscope) MAIN: 400Hz (1.5MHz±60kHz DEV) SUB: 1kHz (1.7MHz±30kHz DEV)	• Audio signal (PCM) 400Hz 8 min.	AFM stereo operation check

Note: Recording Mode

L Conventional mode

E Hi 8 (High Band) mode

Tape Type

MP Metal powder tape

ME Metal evaporated tape

The color bar signal recorded on these alignment tapes are shown in Fig. 10-4.

Note: This waveform is measured at the VIDEO OUT terminal (terminated at 75Ω).

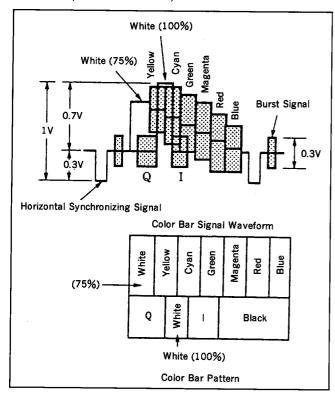


Fig. 10-4. Color Bar Signal of Alignment Tape

10-1-5. Input/Output Levels and Impedance

Video input LINE 1/2 VIDEO (phono jack)

(1 each)

Input signal: 1Vp-p, 75 ohms, unbalanced,

sync negative

Video output LINE OUT/MONITOR OUT VIDEO

(phono jack) (1 each)

Output signal: 1Vp-p, 75ohms, unbalanced,

sync negative

S VIDEO input LINE IN 1/2 S VIDEO

(4-pin, mini-DIN)

(1 each)

Luminance signal: 1 Vp-p, 75 ohms,

unbalanced, sync negative

Chrominance signal: 0.286 Vp-p, 75 ohms,

unbalanced

S VIDEO output LINE OUT/MONITOR OUT S VIDEO

(4-pin, mini-DIN)

Luminance signal: 1 Vp-p, 75 ohms,

unbalanced, sync negative

Chrominance signal: 0.286 Vp-p, 75 ohms,

unbalanced

Audio input LINE 1/2 AUDIO (phono jack)

(2 each)

Input level: -7.5 dBs

Input impedance: more than 47 kilohms

Audio output LINE OUT/MONITOR OUT AUDIO

(phono jack)

(2 each)

Standard impedance: -7.5 dBs at load impedance

47 kilohms

Output impedance: less than 10 kilohms

CONTROL S IN Minijack

CONTROL L 5-pin DIN (rear panel)

(Mini jack) (front panel)

10-2. POWER SUPPLY CHECK 10-2-1. Output Voltage Check (PS-278 Board)

	
Mode	E-E
Measurement instrument	Digital voltmeter
UN 40V check	κ
Measurement point	CN1 pin ①
Specified value	40±2Vdc
UN 12V check	k
Measurement point	CN1 pin ②
Specified value	12.0±0.5Vdc
UN 9V check	
Measurement point	CN1 pin ④
Specified value	$9.0\pm0.5\mathrm{Vdc}$
UN 5.7V chec	ck
Measurement point	CN1 pin ⑥
Specified value	$5.7 \pm 0.2 \text{Vdc}$
SW 5V check	
Measurement point	CN1 pin ⑦
Specified value	5.0 ± 0.2 Vdc
UN -5V che	ck
Measurement point	CN1 pin ⑦
Specified value	-5.1 ± 0.2 Vdc

[Check Method]

1) Each of these supply voltages must meet its specified value.

10-3. SYSTEM CONTROL SYSTEM ADJUSTMENTS 10-3-1. Timer Clock Adjustment (FL-46 Board)

Mode	E-E
Signal	Arbitrary
Measurement point	IC005 pin (8)
Measuring instrument	Frequency counter
Adjustment element	CT001
Specified value	4096.000 ± 0.015 Hz

Note: A frequency counter should be connected through a buffer amplifier (oscilloscope, etc.) having a high impedance and a low capacitance.

[Adjustment Method]

1) Use CT001 to adjust to $4096.000 \pm 0.015 Hz$.



Fig. 10-5.

10-4. SERVO SYSTEM ADJUSTMENTS [Adjustment sequence]

- 1. PWM Frequency Adjustment
- 2. Switching Position Adjustment
- 3. SLOW Adjustment

10-4-1. PWM Frequency Adjustment (CM-32 Board)

Mode	Record
Signal	Arbitrary
Measurement point	IC502 pin ⑦
Measuring instrument	Frequency counter
Adjustment element	RV501
Specified value	476.56±5.00kHz

[Adjustment Method]

- 1) Set Recording Time to SP mode.
- 2) Use RV501 to adjust to $476.56 \pm 5.00 \text{kHz}$.
- 3) Set Recording Time to LP mode.
- 4) Check for at 476.56 ± 5.00 kHz.
- 5) If the specification is not met, repeat Steps 1) to 4).



Fig. 10-6.

10-4-2. Switching Position Adjustment

Mode	Playback
Signal	Alignment tape: For operation check (WR5-1NP)
Measurement point	CH-1: RP-116 board CN004 pin ② (RF SWP) CH-2: RP-116 board CN004 pin ⑤ (PB RF 2CH)
Measuring instrument	Oscilloscope
Adjustment page	D
Adjustment address	03 04
Specified value	$t=0\pm 5\mu sec$

[Connection]

 Short between pin ① and pin ② of connector CN503 on the IN-42 board.

[Adjustment Method]

- Place the adjustment remote control RM-95 (J-6082-053-B) in the HOLD ON position.
- 2) Use EDIT+/— button to select adjustment page Ω .
- 3) Use FF/REW button to select adjustment address $\partial \Omega$.
- 4) Use PB/STOP button to set to adjustment data $\partial \mathcal{Q}$.
- Press PAUSE button on the remote control to store the adjustment data.
- 6) Use EDIT+/— button to select adjustment page \mathbf{c}' .
- 7) Use FF/REW button to select adjustment address $\mathcal{G}\mathcal{A}$.
- 8) Operate PB/STOP button to change and set adjustment data so that $t=0\pm255\mu sec$.
- Press PAUSE button on the remote control to store the adjustment data.
- 10) Use FF/REW button to select adjustment address $\square \exists$.
- 11) Use FF/REW button to change and set adjustment data so that $t=0\pm 5\mu sec$.
- 12) Press PAUSE button to store the adjustment data.

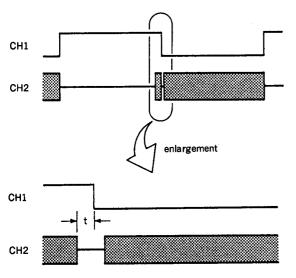


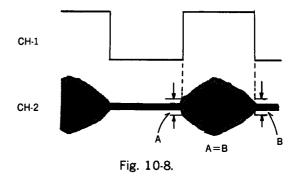
Fig. 10-7.

10-4-3. SLOW Adjustment

Mode	Self-record playback (SP and LP modes)
Signal	Color bar
Measurement point	CH-1: RP-116 board CN004 pin ② (RF SWP) CH-2: RP-116 board CN004 pin ③ (RF OUT)
Measuring instrument	Oscilloscope
Adjustment page	D
Adjustment address	18 (SLOW TRACON DATA (LP)) 19 (SLOW TRACON DATA (SP)) 1A (—SLOW TRACON DATA (LP)) 1B (—SLOW TRACON DATA (SP))
Specified value	A=B

[Adjustment Method]

- Record color bar signal in both SP and LP modes.
- 2) Play back the recorded signal.
- Place the adjustment remote control in the HOLD ON position.
- 4) Use EDIT+/— button to select adjustment page c'.
- 5) Use FF/REW button to select adjustment address ! 2 .
- 6) Enter LP mode and check that the record is played back.
- 7) Use the remote commander or the EDIT SHUTTLE SLOW on the set to enter SLOW 1/5) mode.
- 8) Operate PB/STOP button on the remote control RM-95 to change and set adjustment data so that A=B.
- 9) Press PAUSE button on the remote control to store the adjustment data.
- 10) In the same manner, select adjustment address ! If for SP Mode SLOW (1/5) mode, adjustment address ! If for LP Mode —SLOW (-1/5) mode, and address ! If for SP Mode —SLOW (-1/5) mode and adjust so that A=B.



10-5. VIDEO SYSTEM ADJUSTMENTS

Color video signal supplied from a pattern generator is used as a video input signal for Video System Alignment in the Recording mode. This signal should be checked to ensure that it meets the specifications provided in Figs. 10-2 and 10-3 and "INPUT SIGNAL CHECK".

The adjustments in Video System Alignment should be performed in the following sequence.

[Adjustment sequence]

- 1. Playback Frequency Characteristic Adjustment
- 2. SYNC AGC Adjustment
- 3. CD-64 Board Output Adjustment
- 4. IR Adjustment
- 5. Chroma Comb Filter Adjustment
- 6. Pre-emphasis Input Level Adjustment
- 7. L Mode Y FM Carrier Frequency, Y FM Deviation Adjustment
- 8. E Mode Y FM Carrier Frequency, Y FM Deviation Adjustment
- 9. Chroma Emphasis Adjustment
- 10. L Mode De-emphasis Level Adjustment
- 11. E Mode De-emphasis Level Adjustment
- 12. E Mode Playback Level Adjustment
- 13. L Mode Playback Level Adjustment
- 14. Recording Y Level Adjustment
- 15. Recording Chroma Level Adjustment
- 16. Playback Vector Adjustment

10-5-1. Playback Frequency Characteristic Adjustment (RP-116 Board)

Note: The designation () stands for adjustment on CH-2.

Mode	Playback
Signal	Alignment tape: for frequency characteristic adjustment (WR5-7NE)
Measurement point	CN004 pin ⑥ (PB RF 1CH) (CN004 pin ⑤ (PB RF 2CH)) External trigger: CN004 pin ② (RF SWP) Trigger slope:—[+]
Measuring instrument	Oscilloscope
Adjustment element	RV002 (RV001)
Specified value	4.5MHz level: 8.5MHz level=3: (2±0.2)

[Adjustment Method]

1) Use RV002 [RV001] to adjust so that the ratio of 4.5MHz level to 8.5MHz of PB RF output waveform is $3:(2\pm0.2)$.

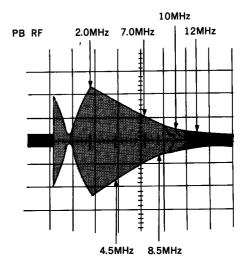


Fig. 10-9.

10-5-2. SYNC AGC Adjustment (VI-104 Board)

Mode	E-E
Signal	Color bar (S VIDEO)
Measurement point	CN101 pin ② (DI Y (X))
Measuring instrument	Oscilloscope
Adjustment element	RV101
Specified value	$1.00 \pm 0.05 \text{Vp-p}$

[Adjustment Method]

1) Use RV101 to adjust to 1.00 ± 0.05 Vp-p.

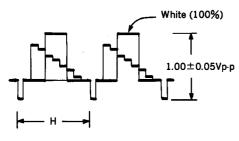


Fig. 10-10.

10-5-3. CD-64 Board Output Adjustment (CD-64 Board/VI-104 Board)

Mode	E-E
Signal	Color bar
Measurement point	Y signal: IC101 pin ② (V IN 1) (VI-104 board) Burst signal: CN101 pin ③ (DI C (X)) (VI-104 board)
Measuring instrument	Oscilloscope
Adjustment element	Y signal: RV601 (CD-64 board) Burst signal: RV602 (CD-64 board)
Specified value	Y signal: 0.50 ± 0.02 Vp-p Burst signal: 143 ± 10 mVp-p

[Adjustment Method]

1) Use RV601 to adjust the Y signal to $0.50\pm0.02 Vp\text{-p}$.

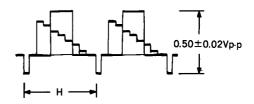


Fig. 10-11.

2) Use RV602 to adjust the burst signal to 143±10mVp-p.

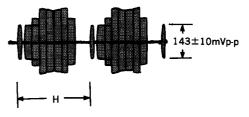


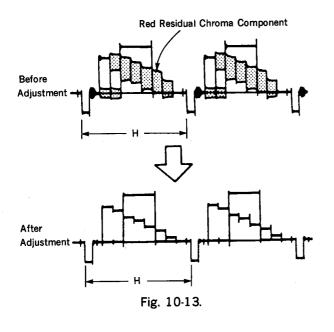
Fig. 10-12.

10-5-4. IR Adjustment (VI-104 Board)

Mode	E-E
Signal	Color bar (VIDEO)
Measurement point	IC101 pin ⑦ (Y COMB OUT)
Measuring instrument	Oscilloscope
Adjustment element	RV106
Specified value	Red residual chroma component should be minimized (to 50mVp-p or less).

[Connection]

- 1) Connect between pin (1) (SWP) and pin (2) (VG2) of IC101. [Adjustment Method]
- 1) Use RV106 to adjust so that the red residual chroma component is minimized (to a level of 50mVp-p or less).

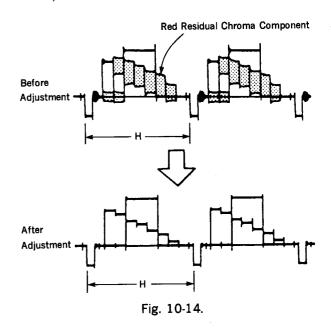


10-5-5. Chroma Comb Filter Adjustment (VI-104 Board)

Mode	E-E
Signal	Color bar (VIDEO)
Measurement point	IC101 pin (I) (C+CD)
Measuring instrument	Oscilloscope
Adjustment element	RV108 RV114
Specified value	Red residual chroma component should be minimized (to 30mVp-p or less).

[Adjustment Method]

1) Adjust RV108 and RV114 alternately to minimize the red residual chroma component (to a level of 30mVp-p or less)

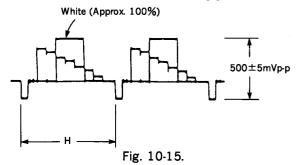


10-5-6. Pre-emphasis Input Level Adjustment (VI-104 Board)

Mode	E-E
Signal	Color bar (S VIDEO)
Measurement point	Q151 emitter
Measuring instrument	Oscilloscope
Adjustment element	RV110
Specified value	$500\pm5 \text{mVp-p}$

[Adjustment Method]

1) Use RV110 and adjust to $500 \pm 5 \text{mVp-p}$.



10-5-7. L Mode Y FM Carrier Frequency, Y FM Deviation Adjustment

Note 1: After this adjustment, be sure to perform "10-5-8. E Mode Y FM Carrier Frequency, Y FM Deviation Adjustment".

Note 2: The S Video Line output terminal should be terminated at 75Ω .

(1) L Mode Y FM Carrier Frequency Adjustment (VI-104 Board)

Mode	E-E
Signal	No signal
Measurement point	IC101 pin (1) (Y RF OUT)
Measuring instrument	Frequency counter Oscilloscope
Adjustment element	RV105
Specified value	4.38±0.05MHz

Note: A frequency counter should be connected through a buffer amplifier (oscilloscope, etc.) having a high impedance and a low capacitance.

[Adjustment Method]

- 1) Insert MP type cassette tape.
- 2) Use RV105 to adjust to $4.38\pm0.05MHz$.



Fig. 10-16.

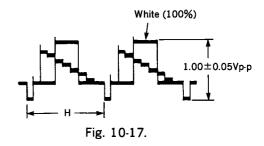
(2) L Mode Y FM Deviation Adjustment (VI-104 Board)

Mode	Record and playback
Signal	Color bar (S VIDEO)
Measurement point	S Video Line Output, Y Signal terminal
Measuring instrument	Oscilloscope
Adjustment element	RV103
Specified value	Playback level should be at $1.00\pm0.05\mathrm{Vp-p.}$

[Adjustment Method]

- 1) Insert MP type cassette tape.
- 2) Record color bar signal.
- 3) Play back the recorded signal.
- 4) Check the playback output level. Specification: 1.00±0.05Vp-p
- 5) If the specification is not met, rotate RV103 as directed below and then repeat Steps 1) to 4).

	Direction of Rotating RV103	
Over specified value	Counterclockwise (()	
Below specified value	Clockwise (\cap)	



10-5-8. E Mode Y FM Carrier Frequency, Y FM Deviation Adjustment

Note 1: When performing this adjustment, it is a prerequisite that "10-5-7. L Mode FM Carrier Frequency, Y FM Deviation Adjustment" has been completed.

Note 2: The S Video Line output terminal should be terminated at 75Ω

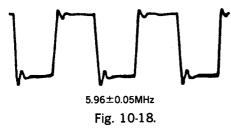
(1) E Mode Y FM Carrier Frequency Adjustment (VI-104 Board)

, , , , , , , , , , , , , , , , , , , ,	
Mode	E-E
Signal	No signal
Measurement point	IC101 pin (3) (Y RF OUT)
Measuring instrument	Frequency counter Oscilloscope
Adjustment element	RV104
Specified value	5.96 ± 0.05 MHz

Note: A frequency counter should be connected through a buffer amplifier (oscilloscope, etc.) having a high impedance and a low capacitance.

[Adjustment Method]

- 1) Insert ME type cassette tape.
- 2) Use RV104 to adjust to 5.96 ± 0.05 MHz.



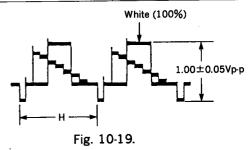
(2) E Mode Y FM Deviation Adjustment (VI-104 Board)

Mode	Record and playback
Signal	Color bar (S VIDEO)
Measurement point	S Video Line Output, Y Signal terminal
Measuring instrument	Oscilloscope
Adjustment element	RV102
Specified value	Playback level should be at 1.00±0.05Vp-p.

[Adjustment Method]

- 1) Insert ME type cassette tape.
- 2) Record color bar signal.
- 3) Play back the recorded signal.
- 4) Check the playback output level. Specification: 1.00±0.05Vp-p
- 5) If the specification is not met, rotate RV102 as directed below and then repeat Steps 1) to 4).

	Direction of Rotating RV102	
Over specified value	Counterclockwise (\cap)	
Below specified value	Clockwise (()	



10-5-9. Chroma Emphasis Adjustment (VI-104 Board)

Mode	Record
Signal	Color bar
Measurement point	IC301 pin @ (B.EMPH 0)
Measuring instrument	Oscilloscope
Adjustment element	T301
Specified value	f0 component should be reduced to a minimum.

[Connection]

1) Connect pin ② of IC301 with GND by inserting $3.9k\Omega$ (1-249-424-11).

[Adjustment Method]

- 1) Adjust T301 to allow the latter half of the yellow component in the chroma signal to have a minimum amplitude.
- 2) After this adjustment, remove the resistor $3.9k\Omega$.

Allow the latter half of the yellow component to have a minimum amplitude.

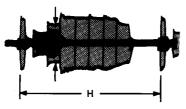


Fig. 10-20.

10-5-10. L Mode De-emphasis Level Adjustment (VI-104 Board)

(11 104 50010)	
Mode	Playback
Signal	Alignment tape: For operation check, color bar portion (WR5-5NSP)
Measurement point	IC101 pin (5) (Y CCD OUT)
Measuring instrument	Oscilloscope
Adjustment element	RV250
Specified value	500±2mVp-p

[Adjustment Method]

1) Use RV250 to adjust to 500±2mVp-p.

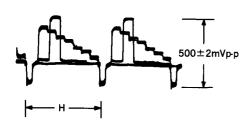


Fig. 10-21.

10-5-11. E Mode De-emphasis Level Adjustment (VI-104 Board)

Mode	Playback
Signal	Alignment tape: For operation check, color bar portion (WR5-8NSE)
Measurement point	IC101 pin (§ (Y CCD OUT)
Measuring instrument	Oscilloscope
Adjustment element	RV111
Specified value	500±2mVp-p

[Adjustment Method]

1) Use RV111 to adjust to 500±2mVp-p.



Fig. 10-22.

10-5-12. E Mode Playback Level Adjustment (VI-104 Board)

	Douray
Mode	Playback
Signal	Alignment tape: For operation check, color bar portion (WR5-8NSE)
Measurement point	IC101 pin ② (DI Y X)
Measuring instrument	Oscilloscope
Adjustment element	RV109
Specified value	1.00±0.05Vp-p

[Adjustment Method]

1) Use RV109 to adjust to $1.00\pm0.05\mathrm{Vp}$ -p.

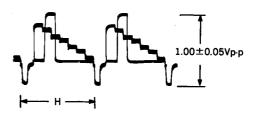


Fig. 10-23.

10-5-13. L Mode Playback Level Adjustment (VI-104 Board)

\	
Mode	Playback
Signal	Alignment tape: For operation check, color bar portion (WR5-5NSP)
Measurement point	IC101 pin ② (DI Y (X))
Measuring instrument	Oscilloscope
Adjustment element	RV251
Specified value	1.00±0.05Vp-p

[Adjustment Method]

1) Use RV251 to adjust to 1.00 ± 0.05 Vp-p.



Fig. 10-24.

10-5-14. Recording Y Level Adjustment (VI-104 Board)

\	
Mode	Record
Signal	No signal
Measurement point	CN105 pin ④ (REC Y/C (X))
Measuring instrument	Oscilloscope (20MHz bandwidth)
Adjustment element	RV502
Specified value	200±10mVp-p

Note: Set an oscilloscope to 20MHz bandwidth.

[Adjustment Method]

- 1) Insert ME tape.
- 2) Record.
- 3) Use RV502 to adjust to $200\pm10 mVp\text{-p}$.



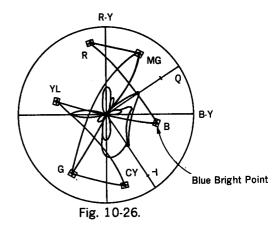
Fig. 10-25.

10-5-15. Playback Vector Adjustment (VI-104 Board)

Mode	Playback
Signal	Alignment tape: For operation check, color bar portion (WR5-5NSP)
Measurement point	Video Line Output terminal
Measuring instrument	Vector scope
Adjustment element	RV114
specified value	Blue bright point should be centered in specified frame (\coprod mark).

[Adjustment Method]

- 1) Adjust RV114 so that the blue bright point will be centered in the specified frame (⊞ mark) on the vector scope screen.
- 2) At this time, make sure that the other bright points are centered in the respective specified frames (\boxplus mark).



10-6. DIGITAL SYSTEM ADJUSTMENTS

The adjustments provided in Digital System Adjustments should be performed in the following sequence.

[Adjustment sequence]

- 1. AFC Adjustment
- 2. APC Adjustment
- 3. Read Clock Adjustment
- 4. Y Output Level Adjustment

10-6-1. AFC Adjustment (DI-46 Board)

7.7	DI 1 1
Mode	Playback
Signal	Alignment tape: For operation check (WR5-5NSP or WR5-8NSE)
Measurement point	IC701 pin ® (YWCK) (CL003 or CL904)
Measuring instrument	Frequency counter
Adjustment element	CV701
Specified value	14318.18±50kHz

Note: A frequency counter should be connected through a buffer amplifier (oscilloscope, etc.) having a high impedance and a low capacitance.

[Connection]

- 1) Connect between pin 5 (VSIN) and pin 6 (VDD) of IC704 by inserting $10k\Omega$ (1-249-429-11). (This will make AFC free running.)
- 2) Short between pin (PWM) and pin (PEO) of IC704.

[Adjustment Method]

- 1) Use CV701 to adjust to $14318.18 \pm 50 \text{kHz}$.
- 2) After this adjustment, perform the following check.

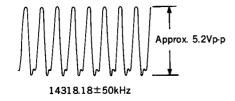


Fig. 10-27.

[Connection]

- 1) Remove the resistor inserted between pin (5) (VSIN) and pin (3) (VDD) of IC704. (This will enter the AFC mode.)
- 2) Open between pin (I) (PWM) and pin (I) (PEO) of IC704.
- 3) Check the waveform at the following measuring points.

• (RPD) Waveform Check

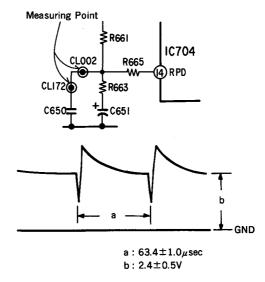


Fig. 10-28.

● (FPD) Waveform Check

Center of Waveform

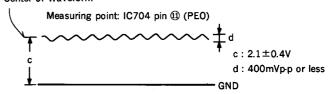
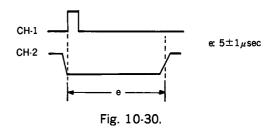


Fig. 10-29.

● (AFH) Waveform Check



10-6-2. APC Adjustment (DI-46 Board)

Mode	Playback
Signal	Alignment tape: For operation check (WR5-5NSP or WR5-8NSE)
Measurement point	IC701 pin ② (CWCK)
Measuring instrument	Frequency counter
Adjustment element	CV704
Specified value	14318180±50Hz

Note: A frequency counter should be connected through a buffer amplifier (oscilloscope, etc.) having a high impedance and a low capacitance.

[Connection]

1) Open pin (9) (DI IN C (X)) of CN601.

[Adjustment Method]

- 1) Use CV704 to adjust to 14318180 ± 50 Hz.
- 2) After this adjustment, perform the following check.

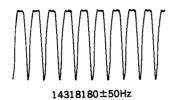
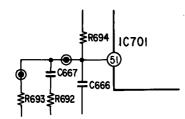
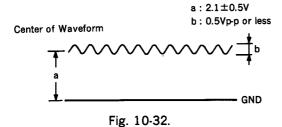


Fig. 10-31.

[Connection]

- 1) Connect pin (9) (DI IN C (X)) of CN601. (This will enter the APC mode.)
- 2) Check the waveform at pin (1) of IC701.





10-6-3. Read Clock Adjustment (DI-46 Board)

Mode	Playback
Signal	Alignment tape: For operation check (WR5-5NSP or WR5-8NSE)
Measurement point	IC703 pin ② (YWCK) (CL003 or CL904)
Measuring instrument	Frequency counter
Adjustment element	CV702
Specified value	14318180±200Hz

Note: A frequency counter should be connected through a buffer amplifier (oscilloscope, etc.) having a high impedance and a low capacitance.

[Adjustment Method]

1) Use CV 702 to adjust to 14318180 ± 200 Hz.

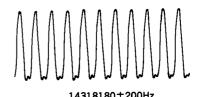


Fig. 10-33.

10-6-4. Y Output Level Adjustment (DI-46 Board)

Note: For this Adjustment, the sequence of adjustments (1) and (2) should be performed twice.

(1) D/A Amplifier Gain Adjustment

Mode	Playback
Signal	Alignment tape: For operation check, color bar portion (WR5-5NSP or WR5-8NSE)
Measurement point	CN602 pin 4 (DI OUT Y)
Measuring instrument	Oscilloscope
Adjustment element	RV603
Specified value	$240\pm10 mV$

[Adjustment Method]

1) Adjust RV603 so that the center of the pedestal level is 240 ± 10 mV above from the center of the sync tip level.

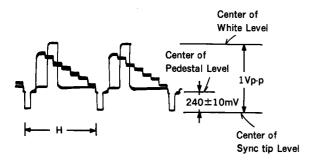


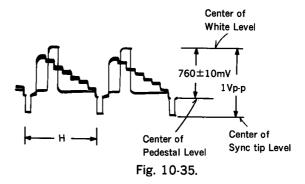
Fig. 10-34.

(2) A/D Amplifier Gain Adjustment

Mode	Playback
Signal	Alignment tape: For operation check, color bar portion (WR5-5NSP or WR5-8NSE)
Measurement point	CN602 pin 4 (DI OUT Y)
Measuring instrument	Oscilloscope
Adjustment element	RV602
Specified value	$760\pm10 \text{mV}$

[Adjustment Method]

1) Adjust RV602 so that the center of the pedestal level is $760\pm10 mV$ above from the center of sync tip level.



10-7. CHARACTER GENERATOR SYSTEM ADJUSTMENTS

10-7-1. CG OSC Adjustment (DS-55 Board)

Mode	Record
Signal	Arbitrary
Measurement point	IC204 pin (5) (OSC 2)
Measuring instrument	Frequency counter
Adjustment element	CV201
Specified value	6.85±0.05MHz

Note: A frequency counter should be connected through a buffer amplifier (oscilloscope, etc.) having a high impedance and a low capacitance.

[Adjustment Method]

1) Use CV201 to adjust to 6.85 ± 0.05 MHz.



Fig. 10-36.

10-8. PCM AUDIO SYSTEM ADJUSTMENTS

Color bar signal should be used as Video signal input for performing this adjustment.

[Connection of Equipment for Audio Measurement]

In addition to equipment for video measurement, equipment for audio system measurement should be connected as illustrated below.

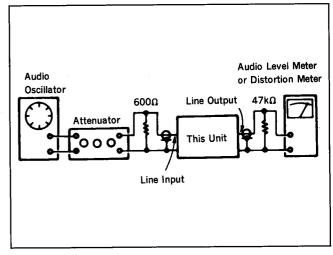


Fig. 10-37.

Unless otherwise specified, place the switches and controls of this unit in the following positions:

- Input Select switchLINE 1
- Audio Monitor (PCM/MIX/Standard) switch PCM The adjustments should be performed in the following sequence.

[Adjustment sequence]

- 1. Master Clock Adjustment
- 2. Recording Level Adjustment
- 3. Offset Adjustment
- 4. Playback VCO Adjustment
- 5. Playback Level Adjustment
- 6. E-E Output Level Check
- 7. Overall Frequency Characteristic Adjustment
- 8. Overall Distortion Factor Check
- 9. Overall Noise Level Check

10-8-1. Master Clock Adjustment (PC-56 Board)

Mode	Record
Signal	Arbitrary
Measurement point	IC703 pin 20 (MCK 1)
Measuring instrument	Frequency counter
Adjustment element	CV701
Specified value	11.58±0.05MHz

Note 1: A frequency counter should be connected through a buffer amplifier (oscilloscope, etc.) having a high impedance and a low capacitance.

[Connection]

- 1) Short between pin (1 (TST 4) and pin (1 (A VDD) of IC703.
- 2) Short between pin @ (TST 0) and pin @ (VSS) of IC703.
- 3) Short between pin (LPF Y) and pin (LPF X) of IC703.

[Adjustment Method]

1) Use CV701 to adjust to 11.58 ± 0.05 MHz.

Note 2: After this adjustment, open the shorted pins.



Fig. 10-38.

10-8-2. Recording Level Adjustment (PC-56 Board)

Mode	Record
Signal	400Hz, -7.5dBs
Measurement point	Audio Line Output terminals, left and right
Measuring instrument	Audio level meter
Adjustment element	RV703
Specified value	Left side: $-6.0\pm0.5 dBs$ Right side: $\pm1.5 dBs$ with respect to left side level

[Adjustment Method]

- 1) Adjust RV703 so that the left side level is at -6.0 ± 0.5 dBs.
- 2) At this time, check that the right level is within $\pm 1.5 dBs$ of the left side level.

10-8-3. Offset Adjustment (PC-56 Board)

Mode	Self-record playback
Signal	400Hz, +3dBs
Measurement point	Left side: IC608 pin ③ Right side: IC608 pin ③
Measuring instrument	Oscilloscope
Adjustment element	Left side: RV701 Right side: RV702
Specified value	Top and bottom clips observed on waveform should be equal with each other.

[Adjustment Method]

- 1) Record signal.
- 2) Play back the recorded portion.
- 3) Check that the clip at the top is equal with the clip at the bottom of the waveform observed.
- 4) If not equal, rotate the RV701 on the left side and RV702 on the right side as directed below. Then, repeat Steps 1) to 3) to check for the clip.

	Direction of Rotating RV701 or RV702
Top clip less	Counterclockwise ()
Top clip more	Clockwise (?)

Note: In this adjustment, the left and right sides will be affected by each other. Alternately adjust the left and right sides.

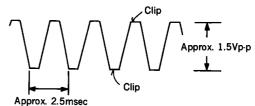


Fig. 10-39.

10-8-4. Playback VCO Adjustment (PC-56 Board)

Mode	Playback, Fast Forwa Search	ard Search, Rewind
Signal	Arbitrary tape	
Measurement point	IC708 pin ® (FMCK)	
Measuring instrument	Frequency counter	
Adjustment element	Fast Forward Search:	RV707 RV709 RV708
Specified value	Fast Forward Search:	$\begin{array}{c} 11.58 \!\pm\! 0.05 \text{MHz} \\ 10.52 \!\pm\! 0.05 \text{MHz} \\ 12.73 \!\pm\! 0.05 \text{MHz} \end{array}$

Note 1: A frequency counter should be connected through a buffer amplifier (oscilloscope, etc.) having a high impedance and a low capacitance.

[Connection]

1) Connect pin ① (DUTY) of IC708 to 5V.

[Adjustment Method]

- 1) Use the remote commander to enter the Playback mode.
- 2) Use RV707 to adjust to 11.58 ± 0.05 MHz.
- 3) Use the remote commander to execute Fast Forward Search. (Press SERACH on "Fast Forward" side.)
- 4) Use RV709 to adjust to 10.52 ± 0.05 MHz.
- 5) Use the remote commander to execute Rewind Search. (Press SERACH on "Rewind" side.)
- 6) Use RV708 to adjust to 12.73 ± 0.05 MHz.

Note 2: After this adjustment, open pin ① of IC708.



During Playback : 11.58±0.05MHz
During Fast Forward Search : 10.52±0.05MHz
During Rewind Search : 12.73±0.05MHz

Fig. 10-40.

10-8-5. Playback Level Adjustment (PC-56 Board)

Mode	Playback
Signal	Alignment tape: For operation check, 400Hz portion (WR5-9NS)
Measurement point	Audio Line Output terminal, left and right
Measuring instrument	Audio level meter
Adjustment element	RV705
Specified value	Left side: -7.5±0.3dBs Right side: ±1.5dBs with respect to left side level

[Adjustment Method]

- 1) Adjust RV705 so that the left side level is at $-7.5\pm$ 0.3dBs
- 2) At this time, check that the right level is within $\pm 1.5 dBs$ of the left side level.

10-8-6. E-E Output Level Check

Mode	E-E
Signal	400Hz, -7.5dBs
Measurement point	Audio Line Output terminals, left and right
Measuring instrument	Audio level meter
Specified value	−7.5±3dBs

[Check Method]

- 1) Place the Recording Level control in 5 position.
- Check that the indicated value of a peak level meter is —7.5dBs.
- 3) Check that the respective levels of Audio Line Output terminals, left and right are -7.5 ± 3 dBs.

10-8-7. Overall Frequency Characteristic Adjustment

Mode	Self-record playback
Signal	 400Hz, -7.5dBs 20Hz, -7.5dBs 14kHz, -7.5dBs Audio Line Input terminals, left and right
Measurement point	Audio Line Output terminals, left and right
Measuring instrument	Audio level meter
Specified value	The playback output levels of 20Hz and 14kHz should be $0 \pm 3 \text{dBs}$ with 400Hz playback output level at 0dBs .

[Check Method]

- 1) Record signals (A) to (C) in turn.
- 2) Play back the recorded portion.
- 3) Check that the respective playback output levels of 20 Hz and 14 kHz are $0\pm3 dBs$ with 400 Hz playback output level at 0 dBs.

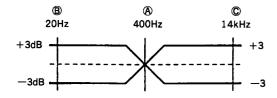


Fig. 10-41.

10-8-8. Overall Distortion Factor Check

Mode	Self-record playback
Signal	400Hz, -7.5dBs: Audio Line Input terminals, left and right
Measurement point	Audio Line Output terminals, left and right
Measuring instrument	Distortion meter
Specified value	0.35% or less

[Check Method]

- 1) Record signal.
- 2) Play back the recorded portion.
- 3) Check that the distortion factor is 0.35% or less.

10-8-9. Overall Noise Level Check

Mode	Self-record playback
Signal	No signal (Insert a shorting plug into the Audio Line Input jacks, left and right.)
Measurement point	Audio Line Output terminals, left and right
Measuring instrument	Audio level meter
Specified value	-82dBs or less Note)

[Check Method]

- 1) Record.
- 2) Play back recorded portion.
- 3) Check that the noise level is -82dBs or less.

Note: This is a value when an IHF-A weighing filter is used.

10-9. AFM AUDIO SYSTEM ADJUSTMENTS

Color bar signal should be used as Video signal input for performing this adjustment.

[Connection of Equipment for Audio Measurement]

In addition to equipment for video measurement, the audio measurement equipment should be connected as illustrated below.

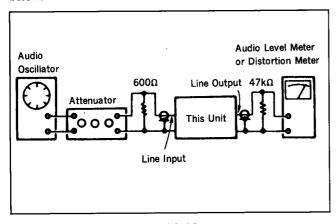


Fig. 10-42.

Unless otherwise specified, place the switches and controls of this unit in the following positions:

- Input Select switchLINE 1
- Audio Monitor (PCM/MIX/Standard) switchPCM The adjustments should be performed in the following sequence.

[Adjustment sequence]

- 1. Recording Separation 2 Adjustment
- 2. Recording Separation 1 Adjustment
- 3. Carrier Frequency 1.5MHz Adjustment
- 4. Carrier Frequency 1.7MHz Adjustment
- 5. 1.5MHz Deviation Adjustment
- 6. 1.7Mhz Deviation Adjustment
- 7. Playback Separation 2 Adjustment
- 8. Playback Separation 1 Adjustment
- 9. E-E Output Level Check
- 10. Overall Frequency Characteristic Check
- 11. Overall Distortion Factor Check
- 12. Overall Noise Check

10-9-1. Recording Separation 2 Adjustment (PC-56 Board)

(1000 2001.1)	
Mode	Record
Signal	400Hz, -7.5dBs
Measurement point	IC801 pin ® (MOA IN)
Measuring instrument	Audio level meter
Adjustment element	RV953
Specified value	-60dBs or less

[Adjustment Method]

1) Use RV953 to adjust to -60dBs or less.

10-9-2. Recording Separation 1 Adjustment (PC-56 Board)

Mode	Record
Signal	400Hz, —7.5dBs
Measurement point	IC901 pin 🚳 (MOA IN)
Measuring instrument	Audio level meter
Adjustment element	RV951
Specified value	-60dBs or less

[Adjustment Method]

1) Use RV951 to adjust to -60dBs or less.

10-9-3. Carrier Frequency 1.5MHz Adjustment (PC-56 Board)

\. •	
Mode	Record
Signal	No signal
Measurement point	IC901 pin ③ (VCO OUT)
Measuring instrument	Frequency counter
Adjustment element	RV901
Specified value	1500±3kHz

Note 1 : A frequency counter should be connected through a buffer amplifier (oscilloscope, etc.) having a high impedance and a low capacitance.

[Connection]

1) Connect pin \mathfrak{D} (VA PB) and pin \mathfrak{D} of IC401 by inserting $10k\Omega$ (1-249-429-11).

[Adjustment Method]

1) Use RV901 to adjust to $1500 \pm 3 \text{kHz}$.

Note 2: After this adjustment, remove the resistor $10k\Omega$.

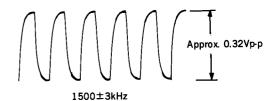


Fig. 10-43.

10-9-4. Carrier Frequency 1.7MHz Adjustment (PC-56 Board)

(1000)	
Mode	Record
Signal	No signal
Measurement point	IC901 pin (1) (VCO OUT)
Measuring instrument	Frequency counter
Adjustment element	RV801
Specified value	1700±3kHz

Note 1: A frequency counter should be connected through a buffer amplifier (oscilloscope, etc.) having a high impedance and a low capacitance.

[Connection]

1) Connect pin 3 (VA PB) and pin 2 of IC401 by inserting $10k\Omega$ (1-249-429-11).

[Adjustment Method]

1) Use RV801 to adjust to $1700 \pm 3 \text{kHz}$.

Note 2: After this adjustment, remove the resistor $10k\Omega$.

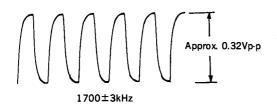


Fig. 10-44.

10-9-5. 1.5MHz Deviation Adjustment (PC-56 Board)

Mode	Playback
Signal	Alignment tape: For operation check (WR5-9NS)
Measurement point	Audio Line Output terminal, left
Measuring instrument	Audio level meter
Adjustment element	RV902
Specified value	−7.5±0.5dBs

[Adjustment Method]

1) Use RV902 to adjust to -7.5 ± 0.5 dBs.

10-9-6. 1.7MHz Deviation Adjustment (PC-56 Board)

Mode	Playback
Signal	Alignment tape: For operation check (WR5-9NS)
Measurement point	Audio Line Output terminal, left
Measuring instrument	Audio level meter
Adjustment element	RV802
Specified value	−7.5±0.5dBs

[Adjustment Method]

1) Use RV802 to adjust to -7.5 ± 0.5 dBs.

10-9-7. Playback Separation 2 Adjustment (PC-56 Board)

Mode	Playback
Signal	Alignment tape: For operation check, 400Hz portion (WR5-9NS)
Measurement point	IC905 pin ⑦
Measuring instrument	Audio level meter
Adjustment element	RV952
Specified value	The level should be minimized (to $-35 dBs$ or less).

[Adjustment Method]

1) Use RV952 to minimize the right side level (to -35dBs or less).

10-9-8. Playback Separation 1 Adjustment (PC-56 Board)

Mode	Playback
Signal	Alignment tape: For operation check, 400Hz portion (WR5-9NS)
Measurement point	IC906 pin ①
Measuring instrument	Audio level meter
Adjustment element	RV954
Specified value	The level should be minimized (to $-35 \mathrm{dBs}$ or less).

[Adjustment Method]

1) Use RV954 to minimize the left side level (to -35dBs or less).

10-9-9. E-E Output Level Check

Mode	E-E
Signal	400Hz, —7.5dBs
Measurement point	Audio Line Output terminals, left and right
Measuring instrument	Audio level meter
Specified value	−7.5±3dBs

[Check Method]

- 1) Place the Recording Level control in 5 position.
- Check that the indicated value of a peak level meter is -7.5dBs.
- 3) Check that the respective levels of Audio Line Output terminals, left and right are -7.5 ± 3 dBs.

10-9-10. Overall Frequency Characteristic Check

Mode	Self-record playback
Signal	 ♠ 400Hz, -7.5dBs 働 20Hz, -7.5dBs © 14kHz, -7.5dBs ∴ Audio Line Input terminals, left and right
Measurement point	Audio Line Output terminals, left and right
Measuring instrument	Audio level meter
Specified value	The playback output levels of $20\mathrm{Hz}$ and $14\mathrm{kHz}$ should be $0\pm3\mathrm{dBs}$ with $400\mathrm{Hz}$ playback output level at $0\mathrm{dBs}$.

[Check Method]

- 1) Record signals A to C in turn.
- 2) Play back the recorded portion.
- 3) Check that the respective playback output levels of 20Hz and 14kHz are $0\pm3dBs$ with 400Hz playback output level at 0dBs.

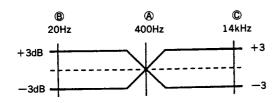


Fig. 10-45.

10-9-11. Overall Distortion Factor Check

Mode	Self-record playback
Signal	400Hz, -7.5dBs : Audio Line Input terminals, left and right
Measurement point	Audio Line Output terminals, left and right
Measuring instrument	Distortion meter
Specified value	Left side: 0.5% or less Note) Right side: 1.0% or less Note)

[Check Method]

- 1) Record signal.
- 2) Play back the recorded portion.
- 3) Check that the distortion factor is 0.5% or less on the left side and 1.0% or less on the right side Note).

Note: These are values when a $200 \, \text{Hz}$ - $6 \, \text{kHz}$ BPF is used.

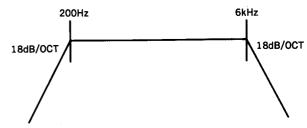


Fig. 10-46.

10-9-12. Overall Noise Level Check

Mode	Self-record playback
Signal	No signal (Insert a shorting plug into the Audio Line Input jacks, left and right.)
Measurement point	Audio Line Output terminals, left and right
Measuring instrument	Audio level meter
Specified value	Left side: -68dBs or less Note) Right side: -63dBs or less Note)

[Check Method]

- 1) Record.
- 2) Play back recorded portion.
- 3) Check that the noise level is -68dBs or less on the left side and -63dBs on the right side.

Note: These are values when an IHF-A weighing filter is used.

10-10. TUNER SYSTEM ADJUSTMENTS

This adjustment should be made in the VHF/UHF Broadcasting Listening mode.

The adjustments should be made in the following sequence.

[Adjustment sequence]

- 1. AGC Adjustment
- 2. Separation Adjustment

10-10-1. AGC Adjustment (TU-100 Board)

Mode	E-E
Signal	TV signal (62dB _{\mu})
Measurement point	IF001 pin ①
Measuring instrument	Digital voltmeter
Adjustment element	AGC VR (IF001)
Specified value	6±0.3V

[Adjustment Method]

- 1) Use AGC VR to adjust the voltage value to 6 ± 0.3 V.
- 2) Input TV signal of $60dB_{\mu}$ and make sure that the voltage is 7V or more.

10-10-2. Separation Adjustment (TU-100 Board)

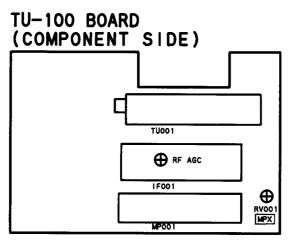
Signal	Stereo L CH: 400Hz, 100% modulated R CH: No modulation
Measurement point	Audio Line Output terminals, left and right
Measuring instrument	Oscilloscope
Adjustment element	RV001

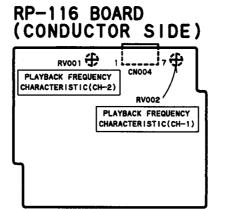
[Adjustment Method]

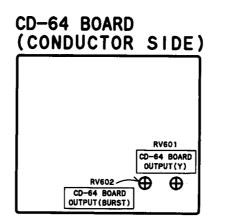
- 1) Set a sound multiplex signal generator to Stereo mode. Set L CH to 400Hz, 100% modulated.
- 2) Connect an oscilloscope to the R channel of Audio Line Output.
- 3) Adjust RV001 so that R CH output is minimized. In this adjustment, Do not rotate R001 fully.

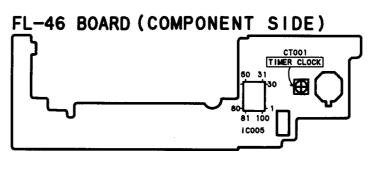
10-11. LOCATIONS OF PARTS ASSOCIATED WITH ADJUSTMENTS

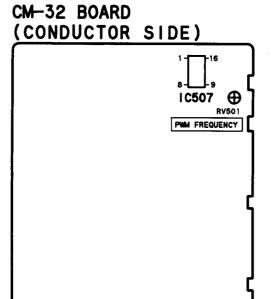
10-11. ADJUSTING PARTS LOCATION DIAGRAM







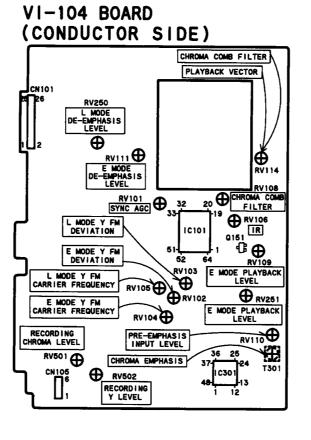


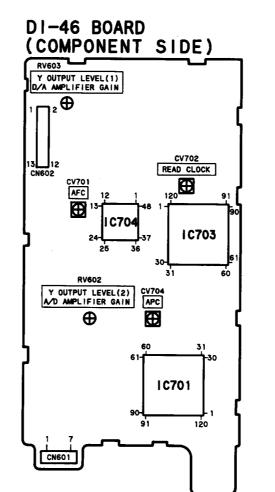


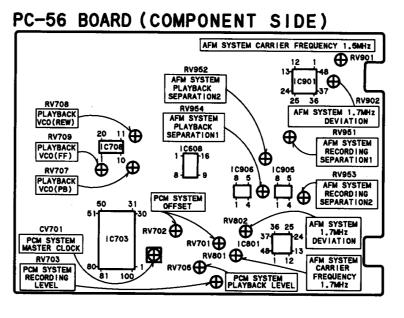
DS-55 BOARD

(COMPONENT SIDE)

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